Student Services Remodel

Davis Applied Technology College

GENERAL NOTES

1. ALL DIMENSIONS & EXISTING CONDITIONS IN AREAS OF WORK ARE TO BE FIELD VERIFIED PRIOR TO COMMENCING WORK - ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO COMMENCING WORK.

2. PROTECT ALL AREAS & SURFACES ADJACENT TO DEMOLITION & CONSTRUCTION. PATCH & REPAIR ANY DAMAGE OR HOLES IN WALLS, CEILINGS & FLOORS RESULTING FROM THE DEMOLTION OF EXISTING ITEMS OR THE CONSTRUCTION OF NEW ITEMS.

3. NOTED AREAS INDICATED THE GENERAL EXTENT OF DEMOLITON. THE CONTRACTOR'S CHOICE OF MEANS & METHODS OF CONSTRUCTION MAY REQUIRE MORE OR LESS DEMOLITION. THE MEANS & METHODS OF DEMOLITION & CONSTRUCTION MUST BE ACCOUNTED FOR IN THE CONTRACTORS BID. ANY DEMOLITION & REPAIR TO ADJACENT SURFACES BEYOND THE AREAS INDICATED IN THE CONTRACT DOCUMENTS WILL NOT BE COMPENSATED FOR AFTER THE BID OPENING.

4. PRIOR TO THE START OF DEMOLTION, THE CONTRACTOR IS TO MEET WITH THE OWNER & ARCHITECT TO IDENTIFY ALL ITEMS TO BE DEMOLISHED & REMOVED FROM SITE, ITEMS TO BE REMOVED & RETURNED TO THE OWNER, OR ITEMS TO BE REMOVED & REINSTALLED.

5. 72-HOUR NOTICE IS REQUIRED FOR ANY UTILITY SHUT DOWN.

6. PRIOR TO BIDDING, THE CONTRACTOR IS TO SURVEY THE EXISTING WALL CONDITIONS. ALL EXISTING NAILS, SCREWS, ABANDONED FASTENERS & HARDWARE IN THE WALLS INDICATED TO REMAIN ARE TO BE REMOVED & THE HOLES PATCHED. IN ADDITION, ALL DAMAGE TO EXISTING WALLS IS TO BE PATCHED & REPAIRED AS PART OF THE BASE BID.

PROJECT DIRECTORY

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HFS Architects
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MECHANICAL
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Salt Lake City, Utah 84106
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ELECTRICAL
Electrical Engineering & Lighting Design
1220 South 300 West
Salt Lake City, Utah 84101
801-486-2222 / FAX 801-474-3353

GRAPHIC SYMBOLS

- DTL# / SHT# — BLDG. ELEV. SYMB.
- DTL# / SHT# — BLDG. SECT. SYMB.
- DTL# / SHT# — WALL SECT. SYMB.
- # — KEYED NOTE SYMB.
- T.O. ELEV — DATUM PT. SYMB.
- ELEV — SPOT ELEV. SYMB.
- RM NAME / RM# / F/B / W/W — RM. NAME/NUMB RM., FINISH SYMB.
- CEILING ELEV — CEIL. FINISH/ELEV. SYMB.
- DTL# / SHT# — DETAIL REF. SYMB.
- DTL# / SHT# — INTR. ELEV. SYMB.
- DR# / SIM — DOOR/HDWR. SYMB.
- WIN# — WINDOW SYMB.

GENERAL ABBREVIATIONS

ACT.	ACCOUSTIC CEILING TILE	EXIST.	EXISTING	MATL.	MATERIAL	RET.	RETAINING
ALT.	ALTERNATE	EQ.	EQUAL	MAS.	MASONRY	REV.	REVISED
ALUM.	ALUMINUM	EQUIP.	EQUIPMENT	MAINT.	MAINTENANCE	R.	RISER
A.B.	ANCHOR BOLT	EXIST.	EXISTING	MFR.	MANUFACTURER	R.D.	ROOF DRAIN
&	AND	EXP.	EXPANSION	M.H.	MANHOLE	RM.	ROOM
ARCH.	ARCHITECTURAL	EXT.	EXTERIOR	M.O.	MASONRY OPENING	R.O.	ROUGH OPENING
@	AT OR AT THE			MAX.	MAXIMUM		
		FIN.	FINISH	MECH.	MECHANICAL	SCHED.	SCHEDULE
BM.	BEAM	F.A.	FIRE ALARM	MEMB.	MEMBRANE	SEAL.	SEALANT
BLK.	BLOCK	F.E.	FIRE EXTINGUISER	MEN.	MEN'S TOILET	SECT.	SECTION
BLKG.	BLOCKING	F.E.C.	F.E. CABINET	MTL./MET.	METAL	S.S.K.	SERVICE SINK
BD.	BOARD	FLR./FL.	FLOOR	MIN.	MINIMUM	SHT.	SHEET
BOT.	BOTTOM	F.D.	FLOOR DRAIN	MIR.	MIRROR	SIM.	SIMILAR
BLDG.	BUILDING	F.O.S.	FACE OF STUD	MISC.	MISCELLANEOUS	SL./SLP.	SLOPE
		F.O.W.	FACE OF WALL	MTD.	MOUNTED	S.C.	SOLID CORE
CPT.	CARPET	FTG.	FOOTING	MUL.	MULLION	SPEC.	SPECIFICATIONS
CLKG.	CAULKING	FDN.	FOUNDATION			SQ.	SQUARE
C.I.	CAST IRON	F.F.	FINISH FLOOR	NOM.	NOMINAL	STD.	STANDARD
CLG.	CEILING			N.	NORTH	STL.	STEEL
CEM.	CEMENT	GALV	GALVANIZED	N.I.C.	NOT IN CONTRACT	STOR.	STORAGE
CTR.	CENTER	G.I.	GALVANIZED IRON	N.T.S.	NOT TO SCALE	STRUCT	STRUCTURAL/STRUCTURE
CL	CENTER LINE	GA.	GAUGE	NO.	NUMBER	SYM.	SYMMETRICAL
CER.	CERAMIC	GL.	GLASS				
C.T.	CERAMIC TILE	GR.	GRADE	OR #	ORDINATE NUMBER	T.B.R.	TO BE REMOVED
CLR.	CLEAR (ANCE)	GND.	GROUND	OFF.	OFFICE	TEL.	TELEPHONE
CLO.	CLOSET	GYP.	GYPSUM BOARD	O.C.	ON CENTER	TEMP.	TEMPORARY / TEMPERED
COL.	COLUMN	BD.	GYPSUM WATERPROOF BOARD	OPNG.	OPENING	THK.	THICK. (NESS)
CONC.	CONCRETE	GWB		OPP.	OPPOSITE	T & G	TONGUE AND GROOVE
CMU	CONCRETE MASONRY UNIT			OPP. H.	OPPOSITE HAND	T/CONC	TOP OF CONCRETE
CMP	CORRUGATED METAL PIPE	H.D.P.E.	HIGH DENSITY POLYETHYLENE HARDWARE GROUP # HARDWOOD	O.D.	OUTSIDE DIAMETER	T/CURB	TOP OF CURB
CONN.	CONNECTION	HG#		O.R.D.	OVERFLOW ROOF DRAIN	T.O. FTG.	TOP OF FOOTING
CONSTR.	CONSTRUCTION	HDWD.				T.O.P.	TOP OF PLATE
CONT.	CONTINUE/CONTINUOUS	HT.	HEIGHT	PTD. -E	PAINTED EPOXY	T/WALL	TOP OF WALL
CONTR.	CONTRACTOR	H.P.	HIGH POINT	PTD.	PAINTED	T.	TREAD
C.J.	CONTROL JOINT	HORIZ.	HORIZONTAL	PR.	PAIR	TYP.	TYPICAL
CORR.	CORRIDOR	H.B.	HOSE BIBB	PART.	PARTITION		
CNTR.	COUNTER	H.M.	HOLLOW METAL	PED.	PEDESTRIAN	UNF.	UNFINISHED
CTSK.	COUNTERSUNK	HR.	HOURS (FIRE RATING)	PLAS.	PLASTER	U.N.O.	UNLESS NOTED OTHERWISE
				P. LAM.	PLASTIC LAMINATE		
DET.	DETAIL	IN.	INCH	PL	PLATE	VAR.	VARY OR VARIES
DEPT.	DEPARTMENT	I.D.	INSIDE DIAMETER	PLYWD.	PLYWOOD	VERT.	VERTICAL
DIA.	DIAMETER	INSUL.	INSULATION	PT.	POINT	V.T.R.	VENT THROUGH ROOF
DIM.	DIMENSION	INT.	INTERIOR			VCT	VINYL COMPOSITION TILE
DN.	DOWN	I.E.	INVERT ELEVATION	Q.T.	QUARRY TILE		
D.S.	DOWNSPOUT	INV.				W/	WITH
DWG.	DRAWING			RAD.	RADIUS	W.A.S.	WELDED ANCHOR STUD
D.F.	DRINKING FOUNTAIN	JAN.	JANITOR	R.B.	RUBBER BASE	WD.	WOOD
		JT.	JOINT	R.W.L.	RAIN WATER LEADER	WP.	WATERPROOF
E.	EAST	J-BOX	JUNCTION BOX	R.F.F.	REFERENCE FINISH FLOOR	WSCT.	WAINSCOT
EA.	EACH			REFL.	REFLECTED	W/O	WITHOUT
ELEC.	ELECTRIC (AL)	KIT.	KITCHEN	REINF.	REINFORCING	W.P.	WORKING POINT
ELEV./EL.				REQ.	REQUIRED	W.R.	WATER RESISTANT
		LAM.	LAMINATE			W.I.	WROUGHT IRON
		LAV.	LAVATORY				
		LT.	LIGHT				
		L.P.	LOW POINT				

MATERIALS LEGEND

- EARTH
- SAND
- CONCRETE W/ ARCH. FINISH
- CMU
- BRICK
- LIMESTONE
- WOOD (BLOCKING)
- WOOD FRAMING
- STEEL
- RIGID INSULATION
- PLASTER
- COMPRESSIBLE FILLER
- METAL LATH
- FENCE
- GRAVEL
- CONCRETE
- CAST STONE
- MARBLE
- GRANITE
- STONE
- PLYWOOD
- WOOD FINISH
- ALUMINUM
- BATT INSULATION
- ACOUSTICAL TILE
- BACKER ROD AND FILLER
- GYPSUM BOARD
- TO REMOVE

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for Building Conservation	N/A
International Plumbing Code	2006	ADA Accessibility Guildelines	1994
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: B S-1

Change in Use: Yes ____ No X Mixed Occupancy: Yes X No ____

Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: D Design Wind Speed: 120 mph

C. Type of Construction (circle one):

I A | I B | II A | (II B) | III A | III B | IV HT | V A | V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: N/A South: N/A East: N/A West: N/A

E. Mixed Occupancies: YES Nonseparated Uses: NO

F: Sprinklers:

Required: YES Provided: YES Type of Sprinkler System: WET

G: Number of Stories: 2 Building Height: 32'-0"

H: Actual Area per Floor (square feet): 1st = 160,593 SF (EXIST) ; 161,943 SF (NEW) 2nd = 35,446 SF (EXIST)

I: Tabular Area: B = 23,000 SF S1 = 17,500 SF

J: Area Modifications:

a) $A_a = A_t + \left[\frac{A_t I_f}{100}\right] + \left[\frac{A_t I_s}{100}\right]$ $\qquad I_f = 100\left[\frac{F}{P} - 0.25\right]\frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

c) Total Allowable Area for:

1) One Story: -
2) Two Story: $A_a(2)$ -
3) Three Story: $A_a(3)$ N/A

d) Unlimited Area Building: Yes X No ____ Code Section: 507.4

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	N/A		Floors - Ceiling Floors	N/A	
Interior Bearing Walls	N/A		Roofs - Ceiling Roofs	N/A	
Exterior Non-Bearing Walls	N/A		Exterior Doors and Windows	N/A	
Structural Frame	N/A		Shaft Enclosures	N/A	
Partitions - Permanent	N/A		Fire Walls	N/A	
Fire Barriers	N/A		Fire Partitions	N/A	
			Smoke Partitions		

L. Design Occupant Load: -

Exit Width Required: - Exit Width Provided: -

M. Minimum Number of Required Plumbing Facilities:

a) Water Closets - Required (m) - (f) - Provided (m) - (f) -
b) Lavatories - Required (m) - (f) - Provided (m) - (f) -
c) Bath Tubs or Showers: N/A
d) Drinking Fountains: - Service Sinks: -

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through X - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
   a) High Rise Requirements.
   b) Atriums.
   c) Performance Based Criteria.
   d) Means or Egress Analysis.
   e) Fire Assembly Locator Sheet.
   f) Exterior and Interior Accessibility Route.
   g) Fire Stopping, Including Tested Design Number.

DRAWING INDEX

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MARK	DATE	DESCRIPTION

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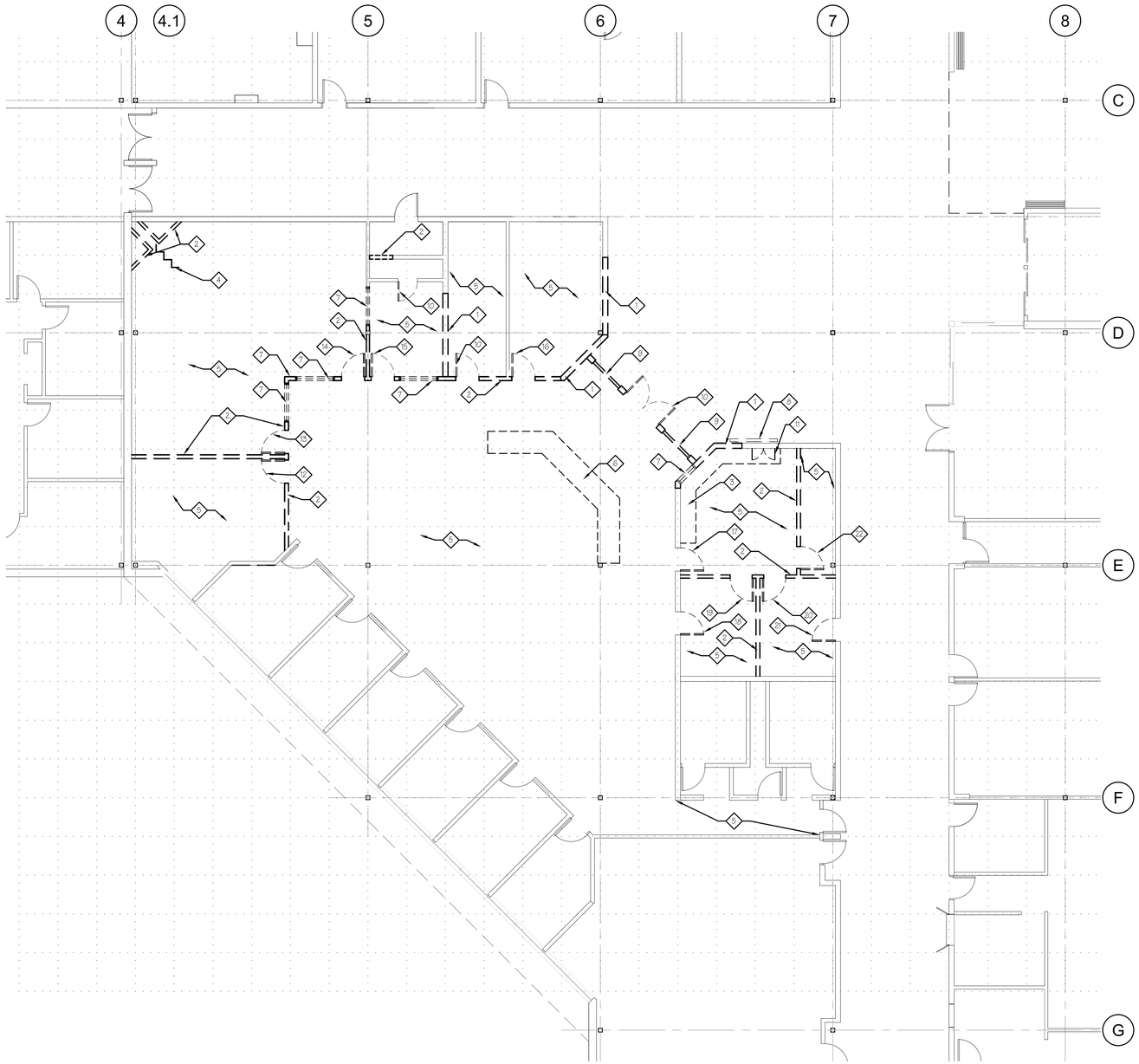
HFSA PROJECT NO:	0615.02
CAD DWG FILE NO:	
DRAWN BY:	SAM
CHECKED BY:	
DESIGNED BY:	BS
DWG TYPE:	
ARCHITECTURAL PHASE:	

SHEET TITLE

COVER SHEET, GENERAL INFO, & SHEET INDEX

G1.00

SHEET 1 OF



A3 DEMO FLOOR PLAN
1/8" = 1'-0"

N

GENERAL DEMOLITION NOTES

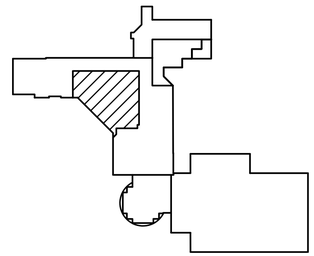
A. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND PREPERATION WORK AS SHOWN ON DRAWINGS AND AS REQUIRED FOR A COMPLETE AND PROPOER JOB. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY EXTENT OF REQUIRED DEMOLITION AND PREPERATION WORK. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL DEMOLITION ITEMS IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL LAWS.

B. ALL ITEMS NOT INDICATED FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED. ANY ITEMS DAMAGED SHALL BE REPAIRED TO MATCH THE ADJACENT SURFACE.

DEMOLITION KEYED NOTES

1. EXISTING MASONRY WALL TO BE DEMOLISHED.
2. EXISTING STUD WALL TO BE DEMOLISHED.
3. REMOVE CASEWORK COMPLETE.
4. REMOVE ACCORDIAN DOOR COMPLETE.
5. REMOVE CARPET AND RUBBER BASE COMPLETE.
6. REMOVE CASEWORK AND SALVAGE TO OWNER.
7. REMOVE WINDOW AND FRAME COMPLETE.
8. RELOCATE SIGN IF REQUIRED FOR NEW CONSTRUCTION.
9. REMOVE GLASS BLOCK COMPLETE.
10. REMOVE DOOR AND HARDWARE AND SALVAGE TO OWNER. FRAME TO BE DEMOLISHED.
11. REMOVE COUNTER DOOR AND SALVAGE TO OWNER.
12. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR TO ROOM 110 & RELOCATE HARDWARE TO ROOM 104. DOOR FRAME TO BE DEMOLISHED.
13. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 107. DOOR FRAME TO BE DEMOLISHED.
14. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 102. DOOR FRAME TO BE DEMOLISHED.
15. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 105. DOOR FRAME TO BE DEMOLISHED.
16. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR TO ROOM 104 & RELOCATE HARDWARE TO ROOM 110. DOOR FRAME TO BE DEMOLISHED.
17. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 109. DOOR FRAME TO BE DEMOLISHED.
18. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 103. DOOR FRAME TO BE DEMOLISHED.
19. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 114. DOOR FRAME TO BE DEMOLISHED.
20. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 115. DOOR FRAME TO BE DEMOLISHED.
21. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 106. DOOR FRAME TO BE DEMOLISHED.
22. REMOVE DOOR AND HARDWARE AND RELOCATE DOOR AND HARDWARE TO ROOM 113. DOOR FRAME TO BE DEMOLISHED.

KEY PLAN



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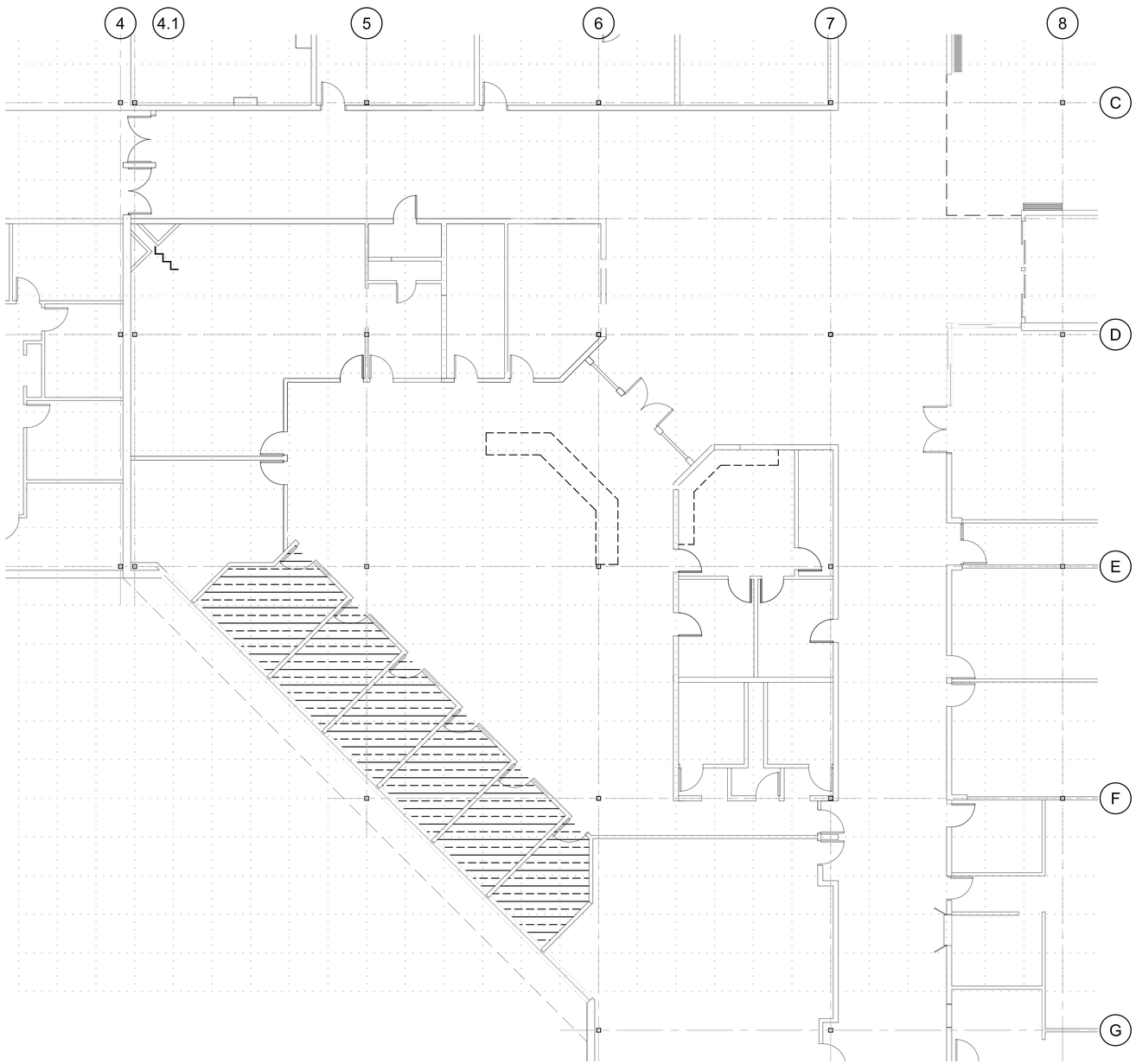
ARCHITECTURAL PHASE:	

SHEET TITLE

DEMO FLOOR PLAN

AD101

SHEET 2 OF



A3 DEMO FLOOR PLAN - ALTERNATE # 1

1/8"=1'-0"

N

GENERAL DEMOLITION NOTES

A. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND PREPERATION WORK AS SHOWN ON DRAWINGS AND AS REQUIRED FOR A COMPLETE AND PROPOER JOB. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY EXTENT OF REQUIRED DEMOLITION AND PREPERATION WORK. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL DEMOLITION ITEMS IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL LAWS.

B. ALL ITEMS NOT INDICATED FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED. ANY ITEMS DAMAGED SHALL BE REPAIRED TO MATCH THE ADJACENT SURFACE.

ALTERNATE #1 DEMOLITION LEGEND

REMOVE CARPET AND RUBBER BASE COMPLETE.

KEY PLAN

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SHEET TITLE

ALTERNATE DEMO FLOOR PLAN

AD102

SHEET 3 OF

A3 DEMO REFLECTED CEILING PLAN

1/8" = 1'-0"

N

GENERAL DEMOLITION NOTES

A. CONTRACTOR SHALL PERFORM ALL DEMOLITION AND PREPERATION WORK AS SHOWN ON DRAWINGS AND AS REQUIRED FOR A COMPLETE AND PROPOER JOB. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY EXTENT OF REQUIRED DEMOLITION AND PREPERATION WORK. THE CONTRACTOR SHALL REMOVE FROM THE SITE AND DISPOSE OF ALL DEMOLITION ITEMS IN ACCORDANCE WITH ALL APPLICABLE STATE AND FEDERAL LAWS.

B. ALL ITEMS NOT INDICATED FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED. ANY ITEMS DAMAGED SHALL BE REPAIRED TO MATCH THE ADJACENT SURFACE.

CEILING DEMOLITION LEGEND

REMOVE EXISTING SUSPENDED CEILING GRID AND 2'x4' ACOUSTICAL LAY-IN PANELS.

REMOVE INDIRECT FLUORESCENT PENDANT LIGHT FIXTURE.

REMOVE 2 X 4 FLUORESCENT LIGHT FIXTURE.

REMOVE 2X2 FLUORESCENT LIGHT FIXTURE.

KEY PLAN

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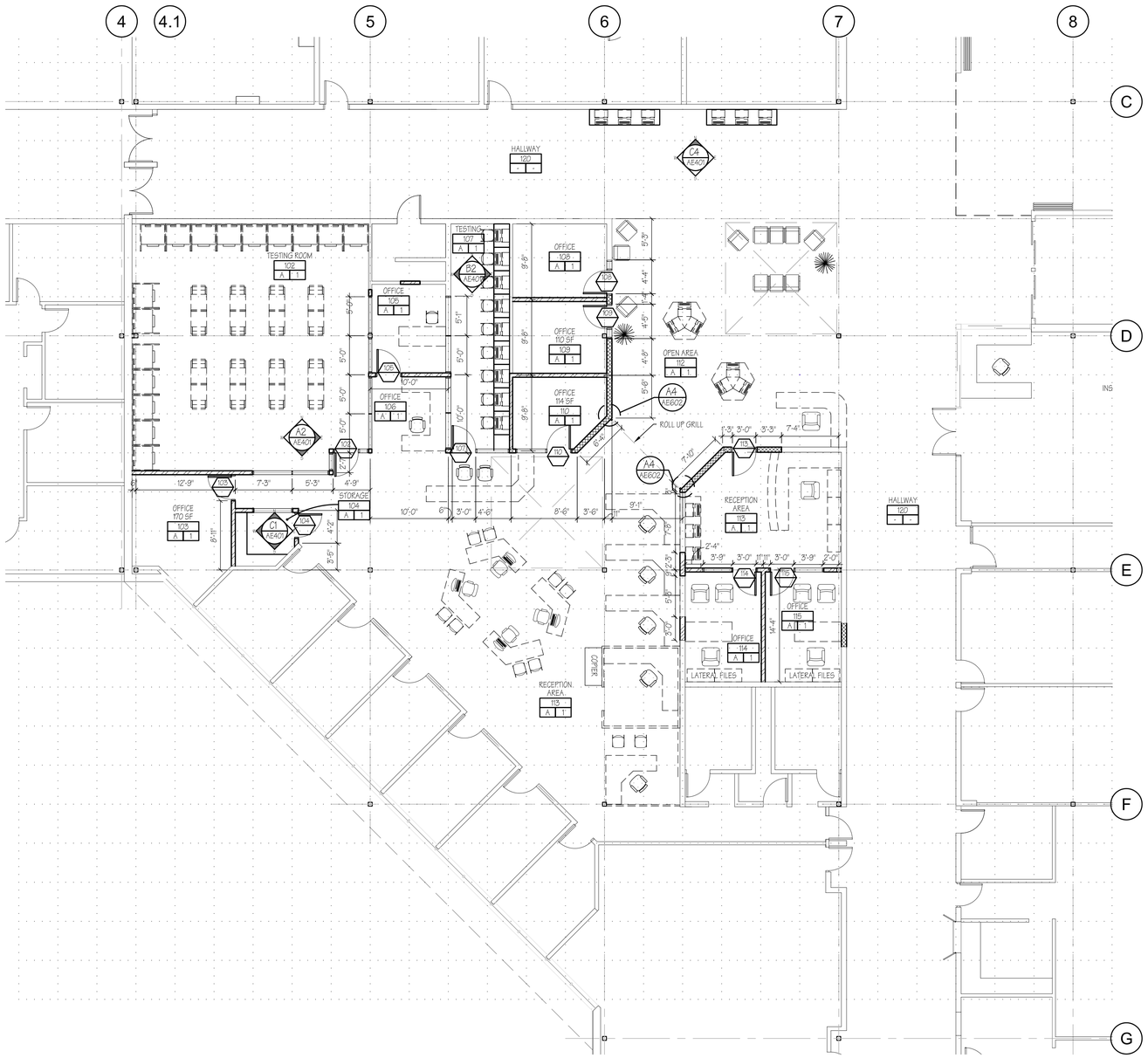
DWG TYPE:	
ARCHITECTURAL PHASE:	

SHEET TITLE

REFLECTED CEILING DEMOLITION PLAN

AD111

SHEET 4 OF



A3 FLOOR PLAN
1/8"= 1'-0"

N

GENERAL NOTES

A. ALL DIMENSIONS TAKEN FROM FINISHED FACE AND/OR CENTER LINE OF NEW AND EXISTING WALLS.

B. IF A CONFLICT OCCURS BETWEEN DRAWINGS, DRAWINGS AND SPECIFICATIONS, SPECIFICATION SECTIONS AND DIVISIONS OR BETWEEN OTHER PARTS OF THESE CONSTRUCTION DOCUMENTS OR THESE DOCUMENTS AND ANY CODE REQUIREMENT, THE CONTRACTOR MAY REQUEST CLARIFICATION DURING THE BIDDING PERIOD. OTHERWISE THE MOST STRINGENT REQUIREMENTS SHALL APPLY AND BE PART OF THE CONTRACT AT NO ADDITIONAL COST TO THE OWNER.

C. ALL WORK AND MATERIALS SHALL BE IN FULL CONFORMANCE WITH THE LATEST FEDERAL, STATE AND LOCAL CODES LAWS AND ORDINANCES. INCLUDING THEIR MOST RECENT REVISIONS, AMENDMENTS AND INTERPRETATIONS.

D. THE GENERAL CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT, FOR IMMEDIATE RESOLUTION, ANY NON-CONFORMING CONDITIONS WHICH MAY BE FOUND IN EXISTING FIELD CONDITIONS.

E. PATCH AND REPAIR ANY DAMAGE TO ANY SURFACE, EQUIPMENT ETC NOT IN THIS SCOPE OF WORK.

FINISH LEGEND

ROOM NAME
FLOOR / BASE | RM NUM | WALL
F | W

A. CARPET TILE WITH RUBBER BASE.

1. PAINT NEW & EXISTING GYPSUM BOARD & CMU WALLS

PARTITION LEGEND

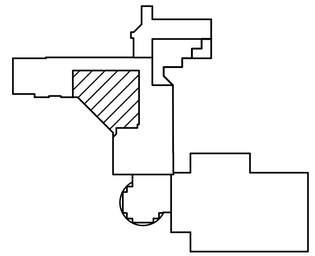
EXISTING STUD WALL TO REMAIN, TYPICAL

NEW 3-5/8" METAL STUD WALL W/ 5/8" GYPSUM BOARD BOTH SIDES TO 6" ABOVE FINISH CEILING, BRACED TO STRUCTURE ABOVE AT 4'-0" O.C. SEE DETAIL B5/AE501.

MATCH EXISTING 4" HIGH CMU. TOOTH INTO EXISTING RUNNING BOND PATTERN. ADD #5 REBAR VERTICAL REINFORCING @ 32" O.C. ADD #5 REBAR, HORIZONTAL JOINT REINFORCING @ 32" O.C., TIE BACK INTO EXISTING WALL.

MATCH EXISTING 8" HIGH CMU. TOOTH INTO EXISTING RUNNING BOND PATTERN. ADD #5 REBAR VERTICAL REINFORCING @ 32" O.C. ADD #5 REBAR, HORIZ. JOINT REINFORCING @ 32" O.C., TIE BACK INTO EXISTING WALL.

KEY PLAN



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SHEET TITLE

FLOOR PLAN

AE101

SHEET 5 OF

GENERAL NOTES

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FINISH LEGEND

ROOM NAME
FLOOR / BASE | RM NUM / F | W | WALL

A. CARPET TILE WITH RUBBER BASE.	1. PAINT NEW & EXISTING GYPSUM BOARD & CMU WALLS

ALTERNATE #1 FLOOR LEGEND

CARPET WITH RUBBER BASE.

KEY PLAN

A3 FLOOR PLAN - ALTERNATE #1
1/8" = 1'-0"

N

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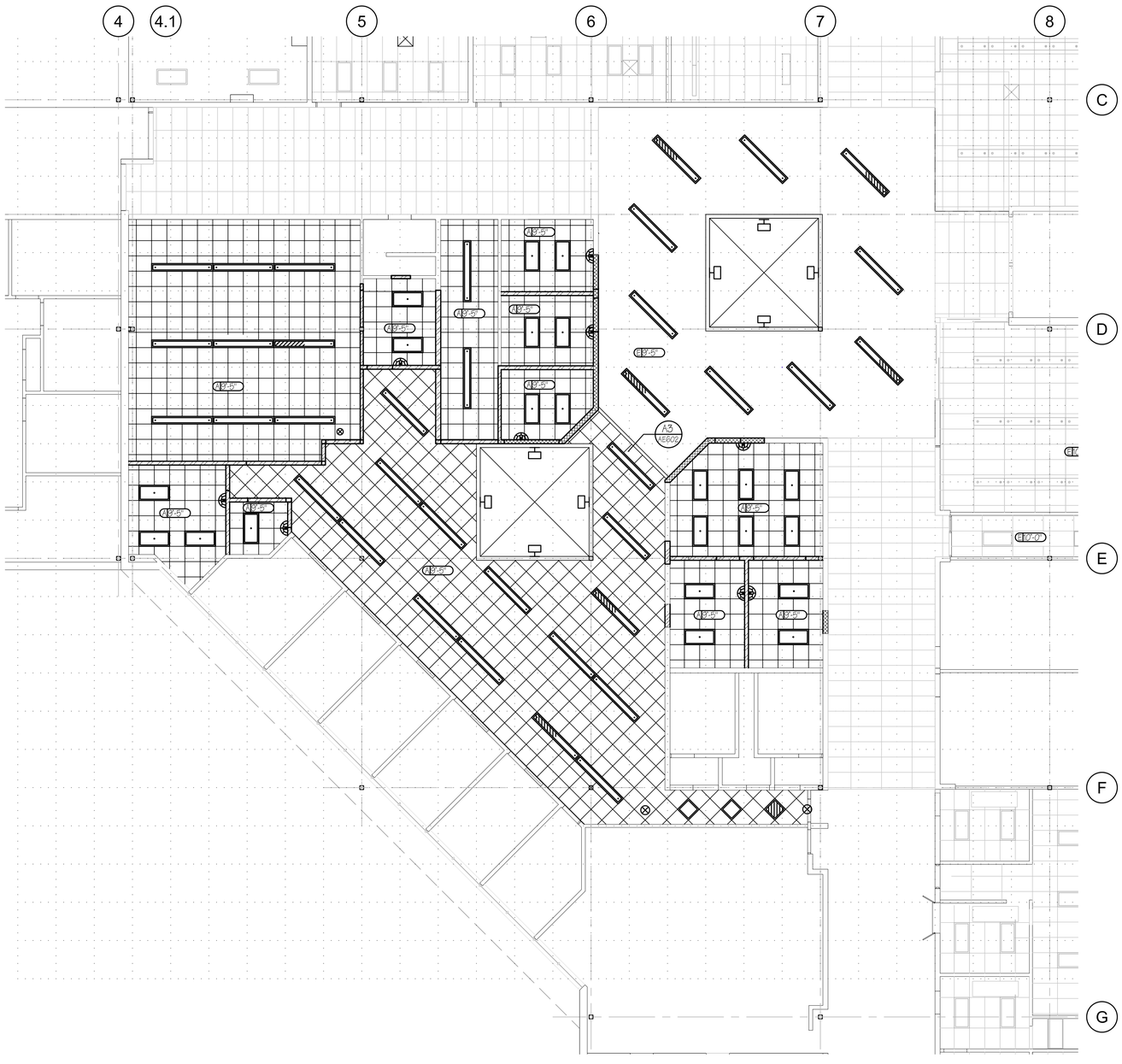
DWG TYPE:	
ARCHITECTURAL PHASE:	

SHEET TITLE

FLOOR PLAN ALTERNATE #1

AE102

SHEET 6 OF



A3 REFLECTED CEILING PLAN
1/8"= 1'-0"

CEILING PLAN LEGEND

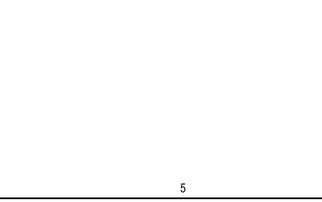
INDIRECT FLUORESCENT PENDANT LIGHT FIXTURE.

2 X 4 FLUORESCENT LIGHT FIXTURE.

FLOOD LIGHT FIXTURE.

A. 2 X 2 CEILING PANELS AND NEW GRID, MATCH EXISTING. SEE A1, A2, A3, A4 & A5 / AE501 FOR CEILING DETAILS.

KEY PLAN



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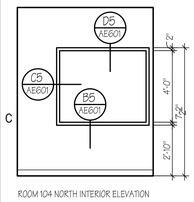
ARCHITECTURAL PHASE:	

SHEET TITLE

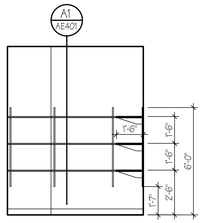
REFLECTED CEILING PLAN

AE111

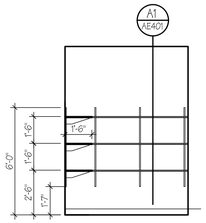
SHEET 7 OF



ROOM 104 NORTH INTERIOR ELEVATION



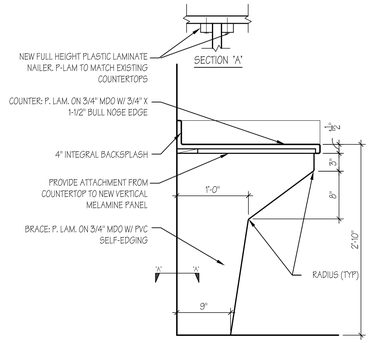
ROOM 104 SOUTH INTERIOR ELEVATION



ROOM 104 WEST INTERIOR ELEVATION

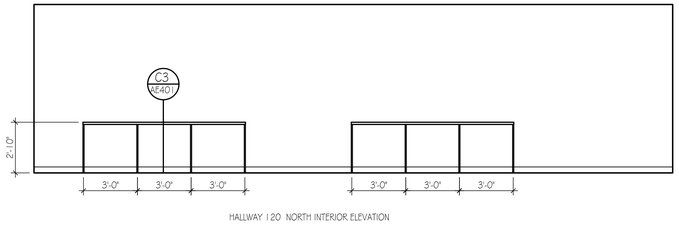
C1 ROOM 104 INTERIOR ELEVATION

1/4" = 1'-0"



C3 CASEWORK SECT. - HALLWAY 120

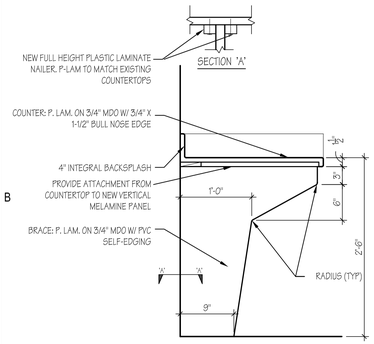
1" = 1'-0"



HALLWAY 120 NORTH INTERIOR ELEVATION

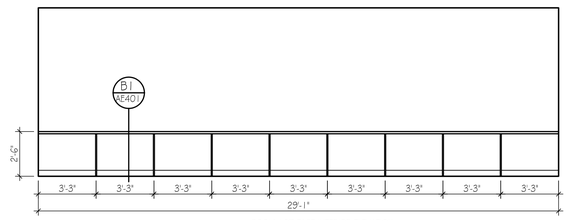
C4 HALLWAY 120 NORTH INTERIOR ELEV.

1/4" = 1'-0"



B1 CASEWORK SECTION - ROOM 107

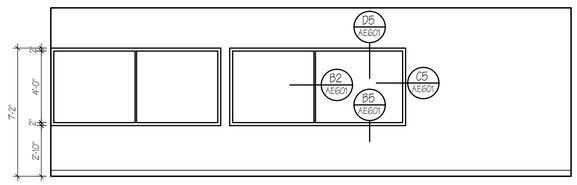
1" = 1'-0"



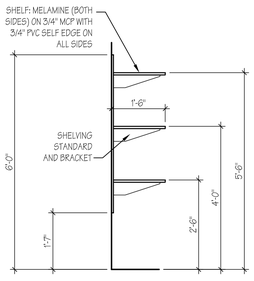
ROOM 107 EAST INTERIOR ELEVATION

B2 ROOM 107 INTERIOR ELEV.

1/4" = 1'-0"

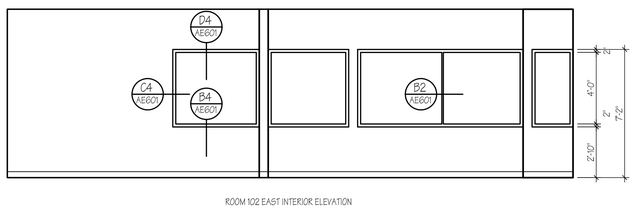


ROOM 107 WEST INTERIOR ELEVATION



A1 SHELVING SECTION - RM 104

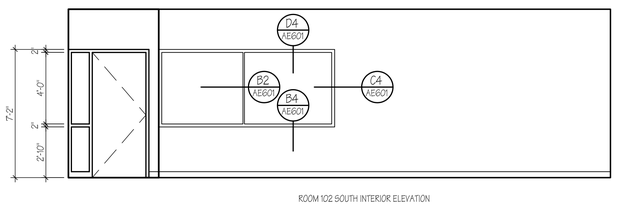
1/2" = 1'-0"



ROOM 102 EAST INTERIOR ELEVATION

A2 ROOM 102 INTERIOR ELEV.

1/4" = 1'-0"



ROOM 102 SOUTH INTERIOR ELEVATION

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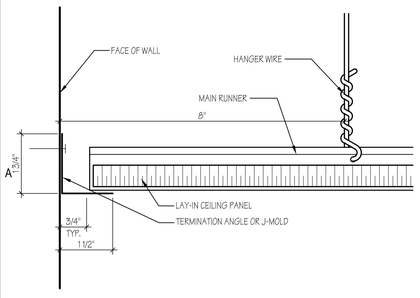
SHEET TITLE

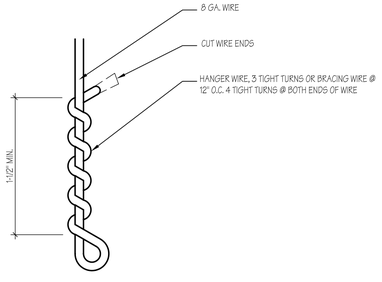
INTERIOR ELEVATIONS

AE401

SHEET 8 OF

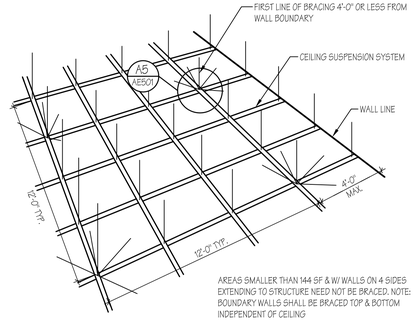


A1 BRACING DETAIL
3"= 1'-0"
1



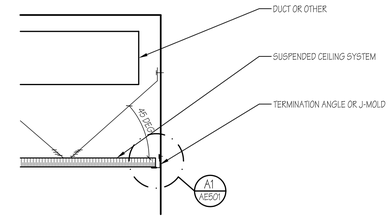
SUSPENDED ACOUSTICAL CEILING HANGER OR BRACE WIRE

A2 HANGER WIRE DETAIL
FULL SCALE
2



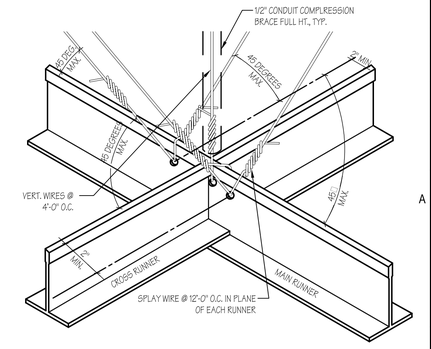
AREAS SMALLER THAN 144 SF & W/ WALLS ON 4 SIDES EXTENDING TO STRUCTURE NEED NOT BE BRACED. NOTE: BOUNDARY WALLS SHALL BE BRACED TOP & BOTTOM INDEPENDENT OF CEILING

A3 BRACING DETAIL
NTS
3

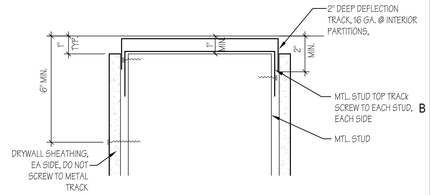


NOTE: WHEN DUCT OR OTHER OBSTRUCTION PREVENTS SPLAY WIRE ATTACHED AT CEILING, OR IF 45□ CANNOT BE ACHIEVED THE USE OF SIDEWALL MAY BE USED.

A4 CEILING DETAIL
NTS
4



A5 BRACING DETAIL
NTS
5



B5 WALL DETAIL
3"= 1'-0"

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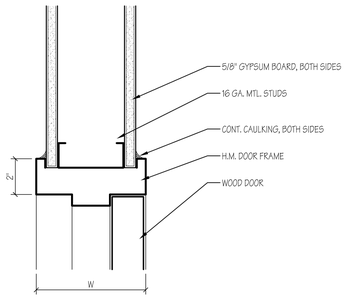
SHEET TITLE

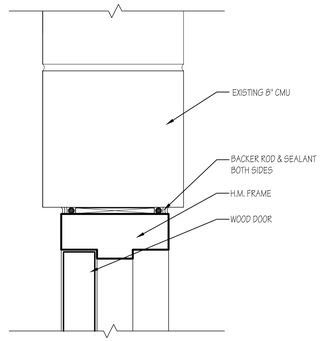
CEILING @ MISC. DETAILS

AE501

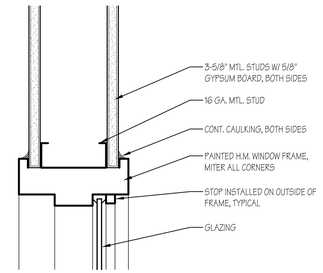
SHEET 9 OF



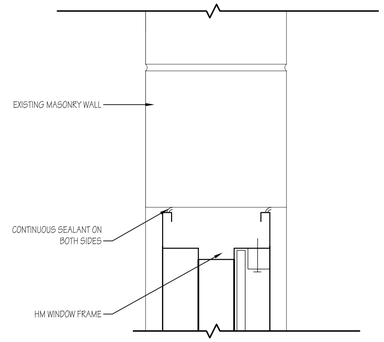
D2 DOOR HEAD DETAIL
3"= 1'-0"



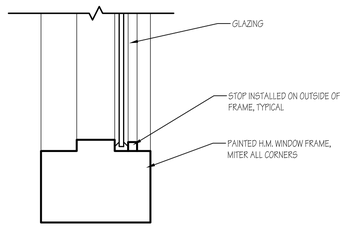
D3 DOOR HEAD (CMU) DETAIL
3"= 1'-0"



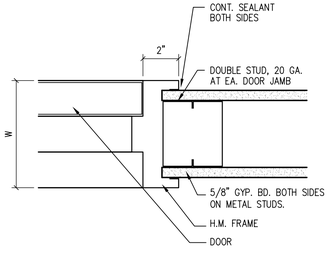
D4 WINDOW HEAD DETAIL
3"= 1'-0"



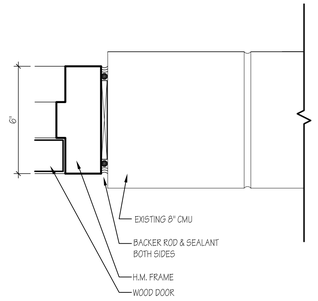
D5 WINDOW HEAD (CMU) DETAIL
3"= 1'-0"



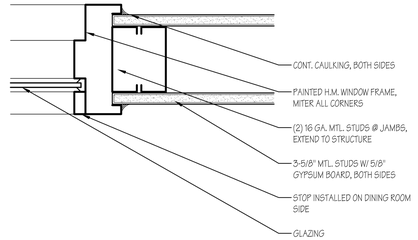
C1 SIDELIGHT SILL DETAIL
3"= 1'-0"



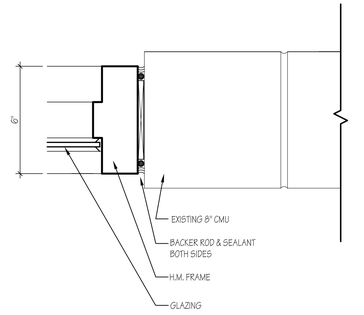
C2 DOOR JAMB DETAIL
3"= 1'-0"



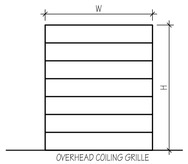
C3 DOOR JAMB DETAIL (CMU)
3"= 1'-0"



C4 WINDOW JAMB DETAIL
3"= 1'-0"

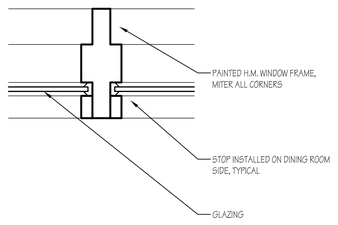


C5 WINDOW JAMB DETAIL
1 - 1/2"= 1'-0"

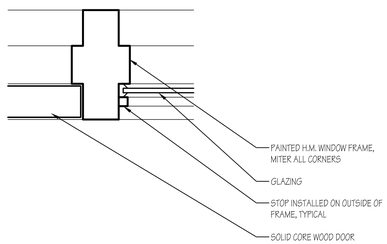


A

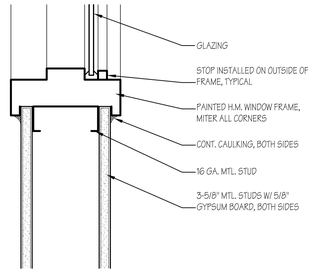
B1 DOOR TYPES
1/4"= 1'-0"



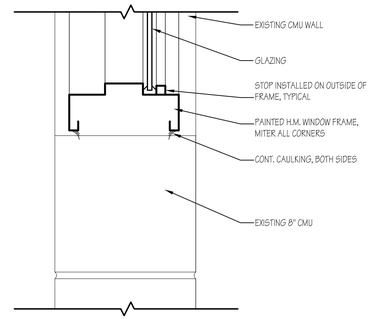
B2 INTERMEDIATE MULLION DETAIL
3"= 1'-0"



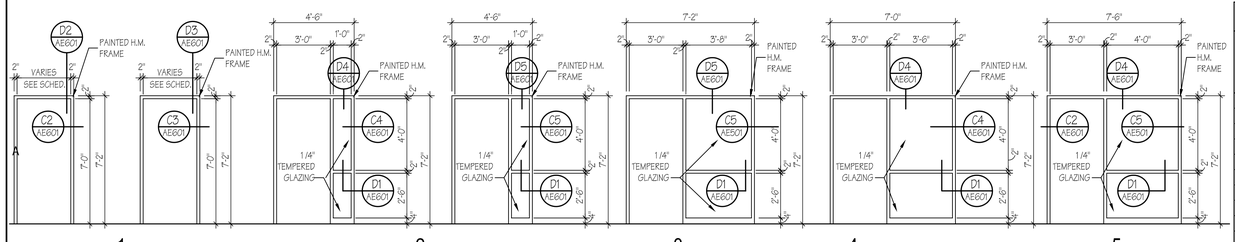
B3 DOOR - SIDELIGHT JAMB DETAIL
3"= 1'-0"



B4 WINDOW SILL DETAIL
3"= 1'-0"



B5 WINDOW SILL DETAIL (CMU)
3"= 1'-0"



A1 FRAME TYPES
1/4"= 1'-0"

DOOR SCHEDULE

DOOR NO.	ROOM NAME	DOOR SIZE W	DOOR SIZE H	DOOR SIZE T	DOOR TYPE	DOOR MAT.	DOOR FINISH	FRAME TYPE	FRAME MAT.	FRAME FINISH	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	RATING	REMARKS	DOOR NO.
102	TESTING ROOM	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	2	HM	PAINT	D2/AE601	C2/AE601	D1/AE601	--	--	102
103	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	1	HM	PAINT	D2/AE601	C2/AE601	--	--	--	103
104	STORAGE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	1	HM	PAINT	D2/AE601	C2/AE601	--	--	--	104
105	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	1	HM	PAINT	D2/AE601	C2/AE601	--	--	--	105
107	TESTING ROOM	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	5	HM	PAINT	D2/AE601	C2/AE601	D1/AE601	--	--	107
108	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	2	HM	PAINT	D3/AE601	C3/AE601	D1/AE601	--	--	108
109	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	2	HM	PAINT	D3/AE601	C3/AE601	D1/AE601	--	--	109
110	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	3	HM	PAINT	D3/AE601	C3/AE601	D1/AE601	--	--	110
112	OPEN AREA	12'-6"	7'-0"	1 3/4"	A	--	--	--	HM	PAINT	A3/AE602	A4/AE602	--	--	--	112
113	RECEPTION AREA	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	1	HM	PAINT	D3/AE601	C3/AE601	--	--	--	113
114	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	4	HM	PAINT	D2/AE601	C2/AE601	D1/AE601	--	--	114
115	OFFICE	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	--	4	HM	PAINT	D2/AE601	C2/AE601	C1/AE601	--	--	115

A4 DOOR SCHEDULE
1/8"= 1'-0"

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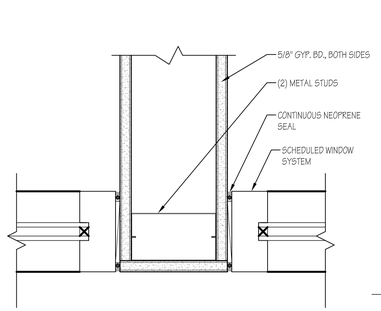
ARCHITECTURAL PHASE:	

SHEET TITLE

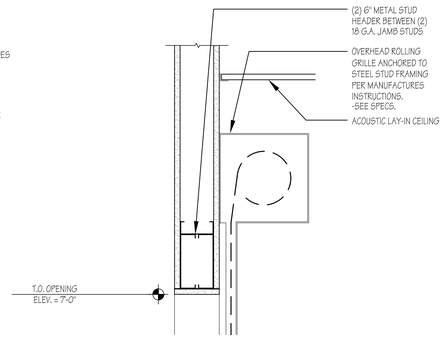
DOOR DETAILS, WINDOW DETAILS, & DOOR SCHEDULE

AE601

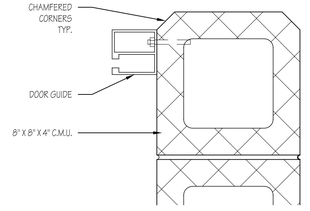
SHEET 10 OF



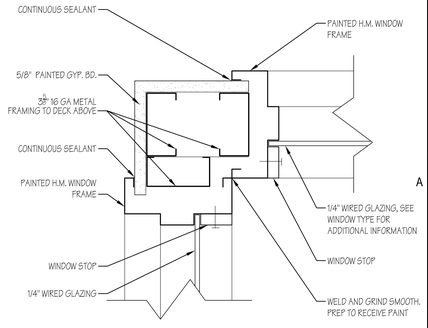
A2 WALL TO MULLION DETAIL
3"= 1'-0"



A3 ROLL DOWN DOOR DETAIL
1 - 1/2"= 1'-0"



A4 ROLL DOWN DOOR DETAIL
3"= 1'-0"



A5 WINDOW DETAIL
3"= 1'-0"

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ARCHITECTURAL PHASE:	

SHEET TITLE

DOOR DETAILS, & WINDOW DETAILS

AE602

SHEET 11 OF

MECHANICAL LEGEND

SYMBOL	ABR.	DESCRIPTION
GENERAL TERMINOLOGY		
A / ME-101		SECTION LETTER DESIGNATION / SECTION DRAWN ON THIS SHEET
A2		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION
AH / 1		MECHANICAL EQUIPMENT DESIGNATION / EQUIPMENT ITEM DESIGNATION
D-1 / CFM		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW
R-1		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE
1		REVISION DESIGNATOR AND NUMBER
1		KEY NOTE DESIGNATOR AND NUMBER
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
AFF		ABOVE FINISHED FLOOR
AP		ACCESS PANEL
℄ EL.		CENTER LINE ELEVATION
INV. ELEV.		INVERT ELEVATION
GC		GENERAL CONTRACTOR
MC		MECHANICAL CONTRACTOR
CC		CONTROL CONTRACTOR
EC		ELECTRICAL CONTRACTOR
FPC		FIRE PROTECTION CONTROL
NIC		NOT IN CONTRACT
NTS		NOT TO SCALE
VCP		VITRIFIED CLAY PIPE
C		COMMON
NC		NORMALLY CLOSED
NO		NORMALLY OPEN

SYMBOL	ABR.	DESCRIPTION
AIR SIDE		
		EXISTING AIR DUCT TO BE REMOVED
		EXISTING AIR DUCT TO REMAIN
		NEW AIR DUCT
		RECT. TO RECT. AIR DUCT TAKE-OFF
		RECT. TO RND. AIR DUCT TAKE-OFF
		RND. TO RND. AIR DUCT TAKE-OFF
		RECT. TAKE-OFF AT END OF MAIN
		BURIED OR UNDER FLOOR DUCT
		FLEXIBLE AIR DUCT
		LINED DUCT
		VANED ELBOW
		RADIUS ELBOW
		CONCENTRIC DUCT TRANSITION
		ECCENTRIC DUCT TRANSITION
		FLEXIBLE AIR DUCT
VD		VOLUME DAMPER
		SUPPLY AIR DIFFUSER
		RETURN AIR, FRESH AIR, AND TRANSFER AIR
		CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE
		RETURN OR OUTSIDE AIR DUCT UP
		SUPPLY DUCT UP
		EXHAUST AIR INTAKE UP
		RETURN OR OUTSIDE AIR DUCT DOWN
		SUPPLY DUCT DOWN
		EXHAUST DUCT DOWN
		ROUND DUCT UP
		LOWER DUCT DOWN
		FLEXIBLE DUCT CONNECTION
		PARALLEL BLADE DAMPER
		OPPOSED BLADE DAMPER
		AIRFLOW MEASURING STATION
		FILTER BANK
		COIL
	AP	ACCESS PANEL
		EXISTING EQUIPMENT TO BE REMOVED
		EXISTING EQUIPMENT TO REMAIN
		NEW EQUIPMENT
F	FD	FIRE DAMPER
R	RD	RADIATION TYPE FIRE DAMPER
S	SD	SMOKE DAMPER
FS	FS	FIRE & SMOKE DAMPER
T	T-STAT	WALL MOUNTED THERMOSTAT
S		WALL MOUNTED TEMP. SENSOR
SA		SUPPLY AIR
RA		RETURN AIR
EA		EXHAUST AIR
OA		OUTSIDE AIR
MA		MIXED AIR
FA		FRESH AIR
RF		RELIEF AIR

SYMBOL	ABR.	DESCRIPTION
WET SIDE		
		PUMP
		UNION
		MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)
		MANUAL ACTUATOR (GATE, GLOBE, S&D, OS&Y, ETC. VALVES)
M		ELECTRIC MOTOR ACTUATOR
S		SOLENOID ACTUATOR
		THREADED OR SWEAT VALVE CONNECTION
		GATE VALVE
		GLOBE VALVE - STRAIGHT PATTERN
		GLOBE VALVE - ANGLE PATTERN
M		MOTORIZED 2-WAY CONTROL VALVE
M		MOTORIZED 3-WAY CONTROL VALVE
		CHECK VALVE
	PRV	PRESSURE REDUCING VALVE
	PRV	PRESSURE REDUCING VALVE W/ CHECK
	CBV	CIRCUIT BALANCING VALVE
	BV	BALL VALVE

SYMBOL	ABR.	DESCRIPTION
WET SIDE CONT		
		PITCH DOWN
		ELBOW UP
		ELBOW DOWN
		TEE UP
		TEE DOWN
		EXISTING PIPING TO BE REMOVED
		EXISTING PIPING TO REMAIN
		NEW PIPING
G		NATURAL GAS PIPING

GENERAL NOTES:

G-1 MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2 ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

G-3 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

G-4 THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

G-5 THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

G-6 MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE AND FIRE DAMPERS AS REQUIRED BY LOCAL CODES AND AUTHORITIES.

G-7 SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

G-8 PROVIDE AND INSTALL BALANCING DAMPERS IN ALL SUPPLY AND EXHAUST AIR BRANCH DUCTS. BALANCE TO CFM SHOWN ON PLAN.

G-9 SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF DIFFUSERS AND GRILLES.

G-10 PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

G-11 THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

G-12 THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

G-13 C.F.M. LISTED IS ACTUAL AIR.

G-14 SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

G-15 CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

G-16 ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

G-17 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

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DAVIS APPLIED TECHNOLOGY COLLEGE

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CHECKED BY:	SLW
DESIGNED BY:	WP
DWG TYPE:	MECHANICAL AND PLUMBING
ARCHITECTURAL PHASE:	CONSTRUCTION DOCUMENTS

SHEET TITLE

MECHANICAL GENERAL NOTES AND LEGEND

M001

SHEET OF

MECHANICAL DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"

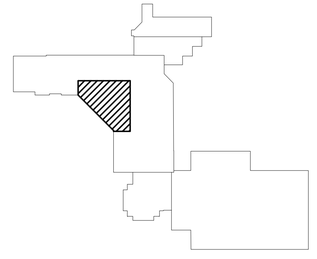
SHEET NOTES:

1. EXISTING VAV BOX SHALL REMAIN.
2. EXISTING MEDIUM PRESSURE DUCT SHALL REMAIN.
3. EXISTING LOW PRESSURE DUCT SHALL REMAIN.
4. REMOVE EXISTING DIFFUSER OR GRILLE.
5. REMOVE EXISTING SECTION OF DUCTWORK AS SHOWN.
6. EXISTING THERMOSTAT SHALL BE RE-USED, AND RE-CALIBRATED.
7. EXISTING DUCT, DIFFUSERS ETC. THIS AREA SHALL REMAIN.
8. EXISTING HOT WATER SUPPLY AND RETURN PIPING SHALL REMAIN.
9. REMOVE EXISTING THERMOSTAT.

GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS INCLUDING EXACT LOCATION OF MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC.

KEY PLAN



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SHEET TITLE

MECHANICAL DEMOLITION FLOOR PLANS

SHEET **MD101** OF

MECHANICAL FLOOR PLAN

SCALE: 1/8" = 1'-0"

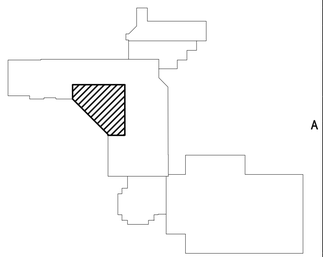
SHEET NOTES:

1. EXISTING VAV BOX SHALL REMAIN.
2. EXISTING MEDIUM PRESSURE DUCT SHALL REMAIN.
3. EXISTING LOW PRESSURE DUCT SHALL REMAIN.
4. PROVIDE NEW CEILING DIFFUSER OR GRILLE. RE-CONNECT TO EXISTING BRANCH OR SOUND BOOT WHERE SHOWN. TRANSITION AS NECESSARY, FIELD VERIFY.
5. PROVIDE NEW SUPPLY DUCT AND TIE INTO EXISTING AT THIS APPROXIMATE LOCATION. FIELD VERIFY SIZE AND LOCATION. TRANSITION AS NECESSARY TO CONNECT TO EXISTING.
6. EXISTING THERMOSTAT SHALL BE RE-USED, AND RE-CALIBRATED.
7. PROVIDE NEW RETURN GRILLE IN NEW LOCATION AS SHOWN.
8. PROVIDE NEW VAV BOX. TIE INTO EXISTING MEDIUM PRESSURE DUCTWORK AND EXISTING HOT WATER PIPING. FIELD VERIFY EXACT SIZE AND LOCATION.
9. PROVIDE NEW THERMOSTAT. COORDINATE EXACT LOCATION WITH ALL DISCIPLINES.

GENERAL NOTES:

1. FIELD VERIFY EXISTING CONDITIONS INCLUDING EXACT LOCATION OF MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC.
2. PROVIDE NEW SOUND BOOT FOR ALL NEW RETURN GRILLES, IN NEW LOCATIONS. EXISTING SOUND BOOT MAY BE RE-USED WHEN GRILLE IS REPLACED IN THE SAME LOCATION.

KEY PLAN



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SHEET TITLE

MECHANICAL FLOOR PLAN

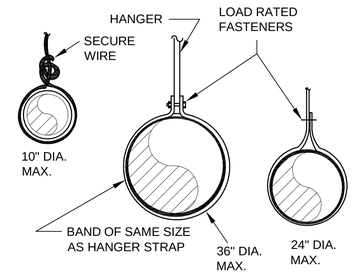
ME101

SHEET OF

DIMENSION OF LONGEST SIDE, INCHES	SHEET METAL GAGE (ALL FOUR SIDES)	TRANSVERSE REINFORCING (1)					
		MINIMUM REINFORCING ANGLE SIZE AND MAXIMUM LONGITUDINAL SPACING BETWEEN TRANSVERSE JOINTS &/OR INTERMEDIATE REINFORCING	AT JOINTS				
			MIN. H. IN.	DRIVE SLIP / PLAIN S SLIP	HEMMED S SLIP	ALTER'NT BAR SLIP	REIN-FORCED BAR SLIP
				RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE	RECOM-MENDED GAGE
UP THRU 12	26	NONE REQUIRED	1	26	26	24	24
13 - 18	24	NONE REQUIRED	1	24	24	24	24
19 - 30	24	1"X1"X1/8" @ 60 IN	1	-	24	24	24
31 - 36	22	1"X1"X1/8" @ 60 IN	1	-	-	22	22

1. TRANSVERSE REINFORCING SIZE IS DETERMINED BY DIMENSION OF SIDE TO WHICH ANGLE IS APPLIED.

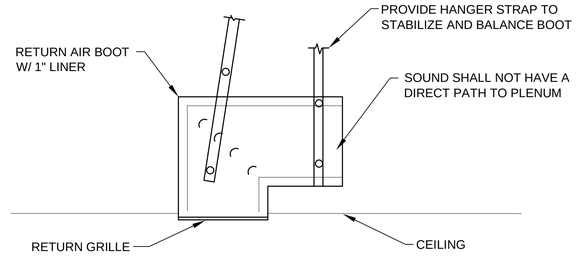
D1 DUCT CONSTRUCTION DETAIL
SCALE: NONE



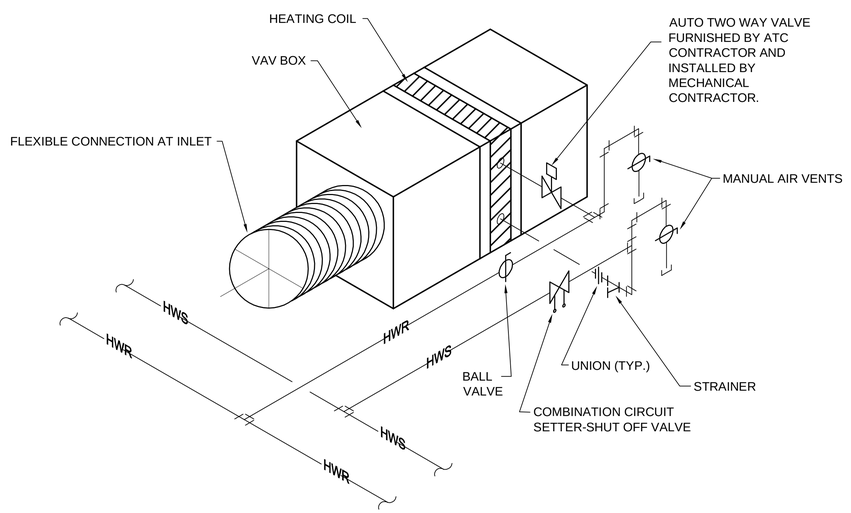
D5 DUCT SUPPORTS
SCALE: NONE

LOW PRESSURE ROUND DUCT CONSTRUCTION SCHEDULE				
DUCT DIAMETER IN INCHES	MAXIMUM 2" W.G. STATIC POSITIVE		MAXIMUM 2" W.G. STATIC NEGATIVE	
	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE	SPIRAL SEAM GAUGE	LONGITUDINAL SEAM GAUGE
3 thru 8	28	28	28	24
9 thru 14	28	26	26	24
15 thru 26	26	24	24	22
27 thru 36	24	22	22	20
37 thru 50	22	20	20	18

C1 LOW PRESSURE ROUND DUCT CONSTRUCTION DETAIL
SCALE: NONE

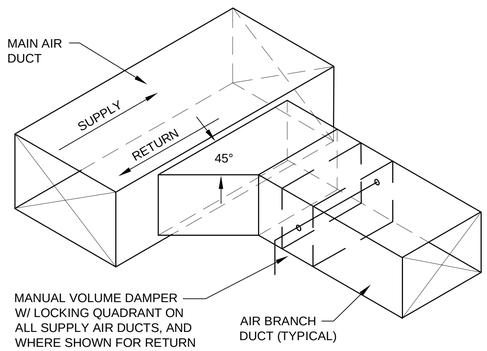


C3 RETURN AIR BOOT DETAIL
SCALE: NONE



B4 VAV BOX (W/ HEATING COIL) HOT WATER PIPING DETAIL
SCALE: NONE

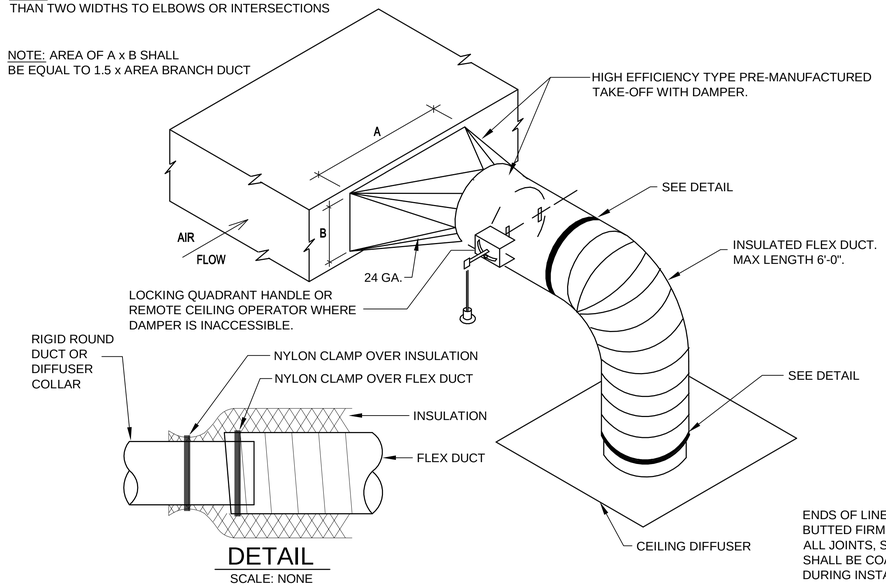
NOTE:
L=1/4 W (4" MINIMUM.)



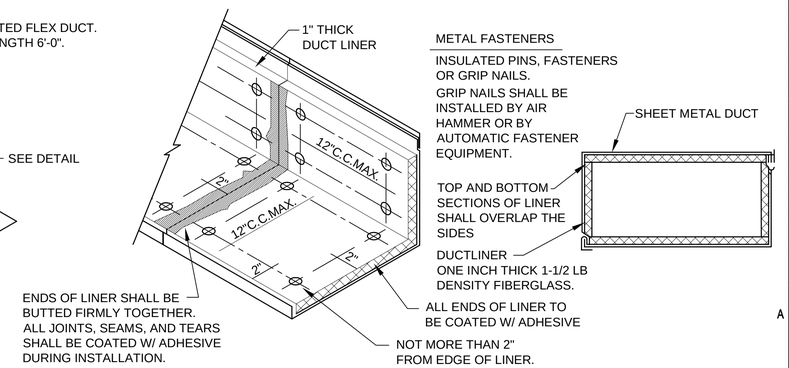
A1 BRANCH DUCT TAKE-OFF & DAMPER DETAIL
SCALE: NONE

NOTE: TAKE-OFFS SHOULD NOT BE INSTALLED CLOSER THAN TWO WIDTHS TO ELBOWS OR INTERSECTIONS

NOTE: AREA OF A x B SHALL BE EQUAL TO 1.5 x AREA BRANCH DUCT



A2 SQUARE-TO-ROUND TAKE-OFF DETAIL
SCALE: NONE



A5 DUCT LINER DETAIL
SCALE: NONE

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ARCHITECTURAL PHASE: CONSTRUCTION DOCUMENTS

SHEET TITLE

MECHANICAL DETAILS

ME501

SHEET OF

REGISTER, LOUVER & GRILLE SCHEDULE

SYMBOL	TYPE	SERVICE	MAX CFM	NOMINAL SIZE	THROAT SIZE	CEILING TYPE	SCHEDULE NOTES
R-1	CEILING	RETURN	375	12/12	12/12	LAY-IN	1,2,3
R-2	CEILING	RETURN	1200	22/22	22/22	LAY-IN	1,2,3

REGISTER. LOUVER AND DIFFUSER SCHEDULE NOTES:

1. MAXIMUM NC = 25 @ MAXIMUM CFM NOTED.
2. SHALL BE PRICE 535 OR EQUAL BY OTHER APPROVED MANUFACTURERS.
3. FINISH SHALL BE OFF-WHITE BAKED ENAMEL.

DIFFUSER SCHEDULE

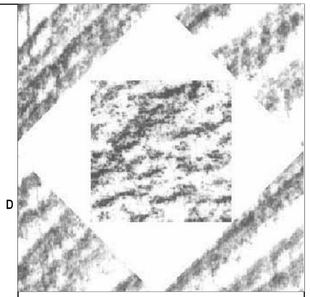
SYMBOL	TYPE	MAX CFM	FACE SIZE	NCK SIZE	CEILING TYPE	BLOW	PATTERN	SCHEDULE NOTES
D-1 CFM	CEILING	225	9X9	8"Ø	LAY-IN	4--WAY		1,2,3,4
D-2 CFM	CEILING	425	12X12	10"Ø	LAY-IN	4--WAY		1,2,3,4
D-3 CFM	CEILING	650	15X15	12"Ø	LAY-IN	4--WAY		1,2,3,4

1. PROVIDE LAY-IN CEILING AND BORDER / MODULE AS REQUIRED. SEE ARCHITECTURAL CEILING PLANS.
2. MAXIMUM NC 25 AT CFM LISTED.
3. TRANSITION AS REQUIRED TO DUCT WORK SHOWN ON PLAN.
4. DIFFUSER SHALL BE PRICE MODEL SMD OR EQUAL IN SPECIFICATIONS.

VAV BOX SCHEDULE

SYMBOL	SERVES	INLET DIA. (INCHES)	COOLING		HEATING							NC LEVEL	MANUF. MODEL #	SCHEDULE NOTES
			MAX CFM	MIN CFM	COIL EAT	COIL LAT	MAX CFM	FLOW GPM	EWT	(FT) PD	ROWS			
VAV 101	108, 109, 110	8"	440	135	65	100	440	2	180	0.75	2	25	PRICE SDV	1

1. SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.



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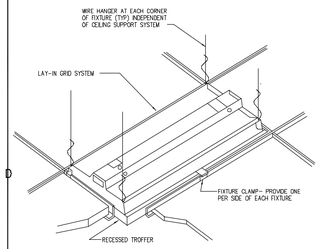
SHEET TITLE

MECHANICAL SCHEDULES AND DETAILS

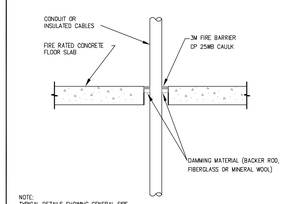
ME601

SHEET OF



TYPICAL RECESSED FIXTURE MOUNTING DETAIL

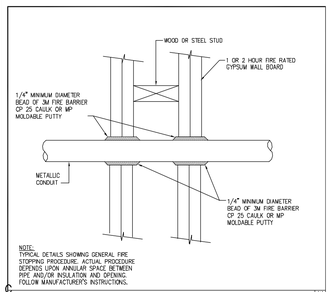
NOT TO SCALE



NOTE:
TYPICAL DETAILS SHOWING GENERAL FIRE STOPPING PROCEDURE. ACTUAL PROCEDURE DEPENDS UPON ANNULAR SPACE BETWEN PIPE AND/OR INSULATION AND OPENING. FOLLOW MANUFACTURER'S INSTRUCTIONS.

TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING

NOT TO SCALE



NOTE:
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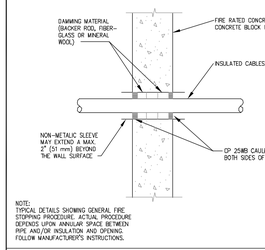
FIRESTOP FOR METAL CONDUIT THROUGH GYPSUM WALL BOARD

NOT TO SCALE



NOTE:
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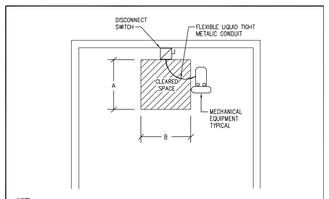
TYPICAL FIRESTOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS

NOT TO SCALE



NOTE:
1. THE CONTRACTOR MUST COORDINATE EXACT LOCATION OF THE DISCONNECT WITH THE MECHANICAL CONTRACTOR TO ELIMINATE ANY OBSTACLE (PIPE,CONCRETE PAD ETC.) IN FRONT OF THE DISCONNECT. IF THERE ARE ANY OBSTACLES, PROVIDE UNISTRUT AND INSTALL THE DISCONNECT NEXT TO MECHANICAL EQUIPMENT IN ORDER TO PROVIDE THE REQUIRED CLEARANCE.

2. PROVIDE MINIMUM CLEARANCE AS FOLLOWS:

SYSTEM VOLTAGE	A	B
480	42"	30"
208	36"	30"

TYPICAL DISCONNECT CLEARANCE REQUIREMENTS

DWG NOT TO SCALE

LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	LAMPS	APPROVED MANUFACTURERS	CATALOG NUMBER
T-1	LINEAR PENDANT MOUNTED FLUORESCENT LIGHT FIXTURE TO MATCH EXISTING. FIELD VERIFY PRIOR TO ORDERING FOR EXACT CATALOG NUMBER.	3F32 PER 4'	MATCH EXISTING	BUILDING STANDARD
T-2	2'X4' RECESSED FLUORESCENT FIXTURE W/ .125" THICK LENS	2F32	COLOMBIA	ST8-24-232-G-FSA.125-EB8-UNV
			X	
			X	
T-3	SAME AS T-2 EXCEPT 2'X2'	2F32 U/LAMP	COLOMBIA	X
T-4	10"X6" FLOOD LIGHT W/ METAL HALIDE LAMP. COORDINATE WITH ENGINEER/ARCHITECT FOR THE LOCATION OF REMOTE BALLEST	100MH	WINONA	P2-LS-M100-277-LK1-SCBA-PG
EX-1	GREEN LED EXIT SIGN TO MATCH BUILDING STANDARD	X	MATCH EXISTING	X

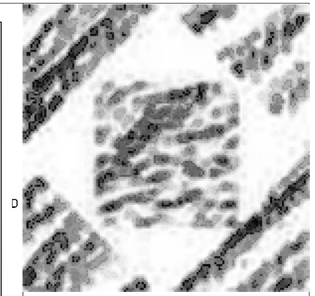
NOTES:
1. ALL FLUORESCENT LIGHTS SHALL HAVE ELECTRONIC PROGRAMMABLE START BALLASTS, 10%, TOTAL HARMONIC DISTORTION. UNIVERSAL, ADVANCE AND HOWARD ARE APPROVED MANUFACTURERS. BALLASTS TO HAVE 5 YEAR WARRANTY.
2. ALL FLUORESCENT LAMPS SHALL HAVE 4100° COLOR TEMPERATURE.
3. FIELD VERIFY ALL LIGHTING VOLTAGES PRIOR TO PLACING ANY ORDER.
4. THE WRITTEN CRITERIA OF THE FIXTURE DESCRIPTION TAKES PRECEDENCE OVER THE CATALOG NUMBER.

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	LIGHTING SYMBOLS
J	RECESSED FLUORESCENT FIXTURE
J	SURFACE MOUNTED FLUORESCENT FIXTURE
J	INDUSTRIAL STRIP LIGHT
	RECESSED FIXTURE
E	FIXTURES ON EMERGENCY POWER
	EXIT LIGHT. ARROWS SHOW EXIT DIRECTION
T-X	LIGHTING FIXTURE CALLOUT. NUMBER INDICATES A SUGGESTED QUANTITY- TO BE VERIFIED
A	REFERENCE NOTE CALLOUT
$	SINGLE POLE TOGGLE SWITCH - 20 AMP
$AB	SINGLE POLE TOGGLE SWITCH - 20 AMP LETTERS INDICATE SWITCH ASSIGNMENT
$3	THREE WAY TOGGLE SWITCH - 20 AMP
	POWER SYMBOLS
	DUPLEX CONVENIENCE OUTLET - 20 AMP
	FOUR-PLEX CONVENIENCE OUTLET- 20 AMP
	DUPLEX CONVENIENCE OUTLET - 20 AMP GFI. DO NOT PROTECT DOWNSTREAM GFI OUTLETS.
	ARROWS INDICATE HOME RUNS - NUMBER OF CONDUCTORS AS REQUIRED
	FLUSH TELEPHONE/DATA OUTLET
	FLUSH TELEPHONE OUTLET
	FLUSH DATA OUTLET
	FLUSHED FLOOR BOX
	ELECTRICAL PANEL LOCATION
	DUEL TECHNOLOGY WALL MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS IN THE ROOM.
	DUEL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR TO CONTROL LIGHTS IN THE ROOM.
CR	CARD READER
DS	DOOR STRIKE
	GENERAL NOTE SYMBOLS
WP	INDICATES WEATHER PROOF EQUIPMENT
A	INDICATES DEVICE IS ABOVE COUNTER TOP-42" AFF REFER TO ARCHITCRAL ELEVATOIN
WG	INDICATES DEVICES WITH LOW PROFILE WIREGUARD. SUBMIT APPROVAL

GENERAL NOTES:

1. IN THE EXISTING SPACES TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, CONDUIT, WIRING DEVICES, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS.
2. ALL MATERIALS TO BE REMOVED FROM THE PREMISES SHALL BE RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.
3. ALL CONCEALED CONDUIT THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISH SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.
4. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUIT INTEGRITY.
5. THE COLOR OF ALL THE NEW DEVICES AND COVERPLATES SHALL BE COORDINATED WITH ARCHITECT.
6. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL LIGHTING FIXTURES.
7. THE COLOR OF THE LIGHT FIXTURES SHALL BE SELECTED BY THE ARCHITECT.
8. MINIMUM SIZE OF CONDUIT TO BE 3/4". 1/2" CONDUIT MAY BE USED FOR CONTROL CABLES. ALUMINUM CONDUITS SHALL NOT BE USED.
9. USE RIGID STEEL SET SCREW TYPE FITTINGS ONLY. DIE CAST FITTINGS SHALL NOT BE USED.
10. SUPPORT THE LAY-IN TYPE FIXTURES FROM THE CEILING DECK INDEPENDENT OF THE CEILING GRID, AS SHOWN ON THE TYPICAL RECESSED FIXTURE MOUNTING DETAIL.
11. ALL NEW WORK MUST MEET THE CURRENT ADDOPTED NATIONAL ELECTRICAL CODE.
12. NOT MORE THAN THREE (3) CIRCUITS, SHALL BE INSTALLED IN A 3/4" CONDUIT.
13. THE SIZE OF THE NEUTRAL CONDUCTORS SHALL BE NO. 10 AWG FOR ALL HOME RUNS WITH COMMON NEUTRAL (LIGHTING AND POWER CIRCUITS).
14. THE MINIMUM SIZE OF THE CONDUCTORS ARE TO BE #12 AWG THHN COPPER, UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
15. ALL J-BOXES SHALL HAVE MINIMUM DEPTH OF 2-1/8" UNLESS OTHERWISE SPECIFIED. SECURE ALL J-BOXES AS SHOWN IN THE DETAILS. FURNISH AND INSTALL PROPER MUD RINGS.
16. ALL METALLIC CONDUITS, JOINTS, FITTINGS, ETC., IN CONTACT WITH THE GROUND SHALL BE SPIRALLY WRAPPED WITH 3M SCOTCHRAP-51, 20 MIL TAPE (OR APPROVED EQUAL). 1/2" OVERLAP IS REQUIRED.
17. ALL CONDUITS EXPOSED TO THE WEATHER AND IN THE MECHANICAL ROOM SHALL BE GALVANIZED RIGID STEEL, UNLESS OTHERWISE NOTED.
18. ALL NEW EXPOSED CONDUIT MUST RUN AGAINST THE WALLS OR CEILINGS. DO NOT PENDANT MOUNT ANY CONDUIT FROM THE CEILING'S
19. ALL THE HOMERUNS MUST BE ACCESSIBLE. DO NOT CARRY A HOMERUN FROM ONE DEVICE TO ANOTHER WHICH IS TIED TO A SEPARATE HOMERUN INSIDE THE WALL. MARK ON ALL THE J-BOXES THE CIRCUIT NAMES AND NUMBERS. USE NO. 10 THHN CONDUCTORS FOR HOMERUNS OVER 100 FEET, NO. 8 THHN OVER 200 FEET, NO. 6 THHN OVER 300 FEET AND NO. 4 THHN OVER 400 FEET LENGTH.
20. COORDINATE WITH THE OWNER AND ARCHITECT FOR THE EXACT LOCATION OF THE OUTLETS.
21. LIGHT SWITCHES INSTALLED ADJACENT TO EACH OTHER, SHALL BE GANGED TOGETHER WITH ONE PIECE COVERPLATE.
22. USE EPOXY ANCHORS TO SUPPORT THE ELECTRICAL EQUIPMENT. EXPANSION ANCHOR BOLTS ARE NOT ACCEPTED.
23. AT THE END OF THE JOB, PROVIDE BLANK COVER PLATES TO MATCH THE OTHER COVER PLATES FOR ALL J-BOXES WHERE DEVICES HAVE NOT YET BEEN INSTALLED.
24. SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS AND CEILINGS WITH FIRE RATED MATERIAL. 3M IS AN APPROVED MANUFACTURER.
25. ALL MATERIALS USED IN THIS INSTALLATION SHALL BE U.L. APPROVED AND NEW.
26. ALL ELECTRICAL WIRING MUST BE IN CONDUIT (ROMEX NOT PERMITTED).
27. NO CONDUITS SHALL RUN IN DUCT WORK.
28. PRIOR TO SUBMITTING A BID THE ELECTRICAL CONTRACTOR SHALL INSPECT THE SITE AND INCLUDE IN HIS BID PACKAGE ALL CHARGES DUE TO EXISTING CONDITIONS. SHOP DRAWINGS ARE REQUIRED. ALL LABOR, MATERIAL AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF 1 YEAR FROM THE DATE OF ACCEPTANCE BY THE TENANT. REPLACE OR REPAIR ALL DEFECTS DURING THE GUARANTEED PERIOD.
29. THE ELECTRICAL CONTRACTOR SHALL TERMINATE THE ELECTRICAL CONNECTIONS TO ALL THE EQUIPMENT BY PROVIDING THE NECESSARY MALE/FEMALE CONNECTOR, RECEPTACLE, PLUG, ETC.
30. ALL DUPLEX OUTLETS AND SWITCHES SHALL BE 20 AMP., 120 VOLT SPEC GRADE. HUBBELL AND PASS & SEYMOUR AND LEVITON ARE APPROVED MANUFACTURERS.
31. ELECTRICAL CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENT, ETC.) OF EQUIPMENT FURNISHED UNDER OTHER DIVISIONS WITH APPROVED SHOP DRAWINGS. REFER TO BEGINNING ROUGH-IN.
32. THE CONTRACTOR SHALL INFORM THE ARCHITECT ENGINEER IN WRITING OF ANY DISCREPANCIES FOUND BETWEEN THE INTENDED FUNCTION OF EQUIPMENT AND EQUIPMENT SPECIFIED IN THE CONTRACT DOCUMENTS A MINIMUM OF FIVE (5) WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM. FAILURE TO REPORT ANY DISCREPANCY (CATALOG NUMBERS, DISCONTINUED ITEMS, ETC.) DOES NOT RELIEVE THE CONTRACTOR FROM PROVIDING EQUIPMENT WHICH SHALL CONFORM TO AND FULFILL THE INTENT OF THE CONTRACT DOCUMENTS. NOR SHALL IT BE USED AS A CONDITION TO OBTAIN ADDITIONAL FUNDS FROM THE OWNER AFTER THE CONTRACT IS AWARDED. THE CONTRACTOR SHALL REQUEST ALL CLARIFICATIONS OF CONTRACT DOCUMENT REQUIREMENTS IN WRITING TO THE ARCHITECT/ENGINEER A MINIMUM OF FIVE WORKING DAYS PRIOR TO ISSUANCE OF THE FINAL ADDENDUM.



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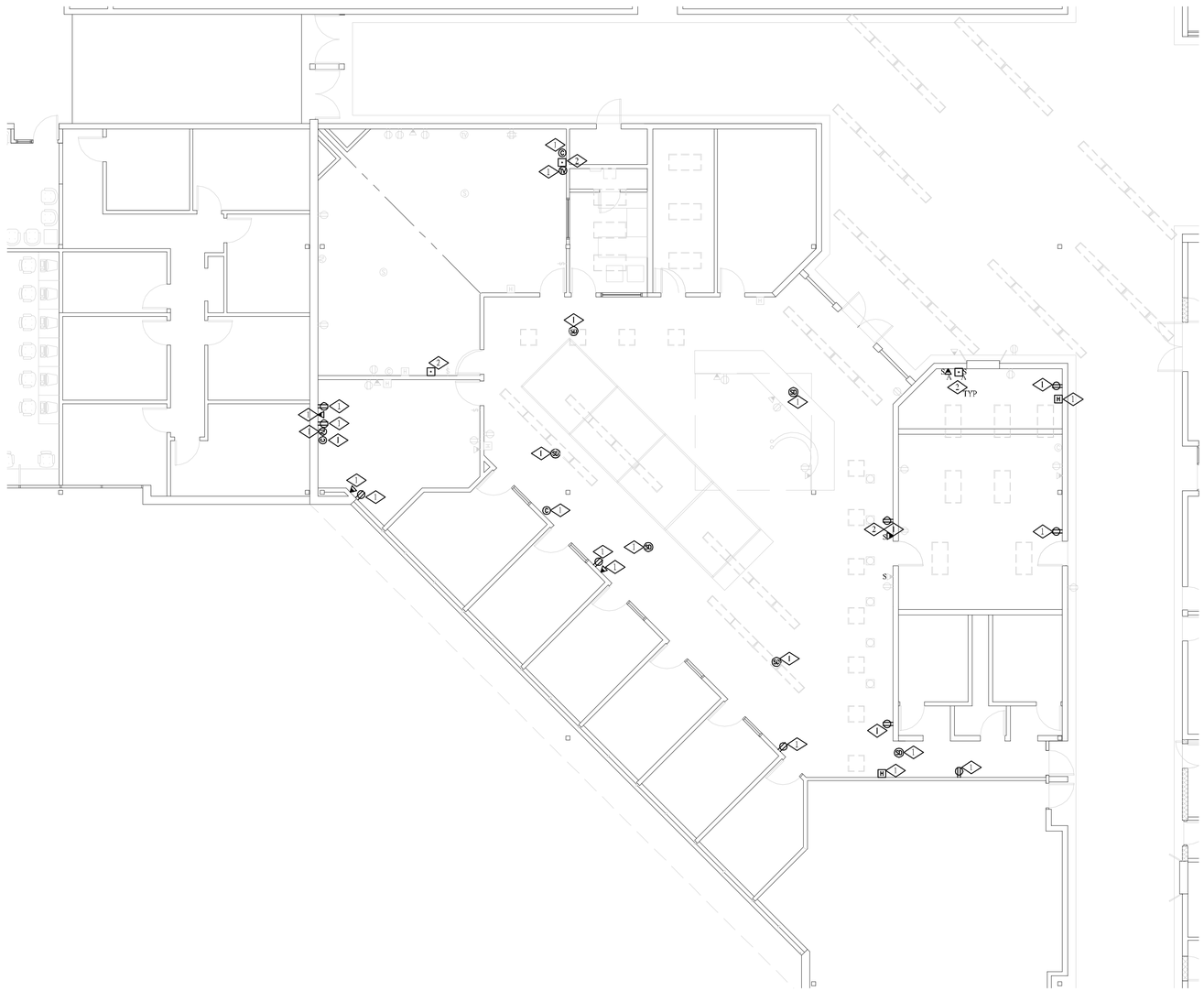

PARTIAL FIRST FLOOR DEMOLITION PLAN - ELECTRICAL

1/8"=1'-0"

REFERENCE NOTES:

<1> EXISTING DEVISES TO REMAIN. PROTECT DEVICES AND KEEP CIRCUIT INTEGRITY.

<2> THE EXISTING PUSH BUTTONS FOR THE EMERGENCY PAGING SYSTEM WILL BE RELOCATED BY THE OWNER. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH THE OWNER AND PROVIDE J-BOXES AND CONDUITS.

DEMOLITION NOTES:

1. IN THE EXISTING SPACE TO BE RENOVATED, THE CONTRACTOR SHALL REMOVE ALL LIGHT FIXTURES, SWITCHES, WIRING, WIRING DEVICES, CONDUITS, FIRE ALARM DEVICES, SPEAKERS, VOLUME CONTROLS, ETC. AS REQUIRED WHETHER OR NOT SHOWN ON THE DRAWINGS.

2. ALL MATERIALS THAT ARE TO BE REMOVED FROM THE PREMISES SHALL BE RETURNED TO THE OWNER. MATERIALS WHICH THE OWNER DECIDES NOT TO KEEP SHALL BE SALVAGED AND REMOVED FROM THE SITE BY THE CONTRACTOR.

3. ALL CONCEALED CONDUITS THAT CANNOT BE REMOVED SHALL BE CUT FLUSH WITH THE FINISHED SURFACES AND CAPPED OFF AFTER THE WIRING HAS BEEN DISCONNECTED AT THE PANEL AND REMOVED FROM THE CONDUIT.

4. IN AREAS WHERE CIRCUIT CONTINUITY IS INTERRUPTED, BUT MUST BE MAINTAINED BECAUSE OF THE NATURE OF THE FACILITY, MAKE ALL THE NECESSARY MODIFICATIONS TO THE CIRCUITS IN ORDER TO MAINTAIN THE CIRCUITS INTEGRITY.

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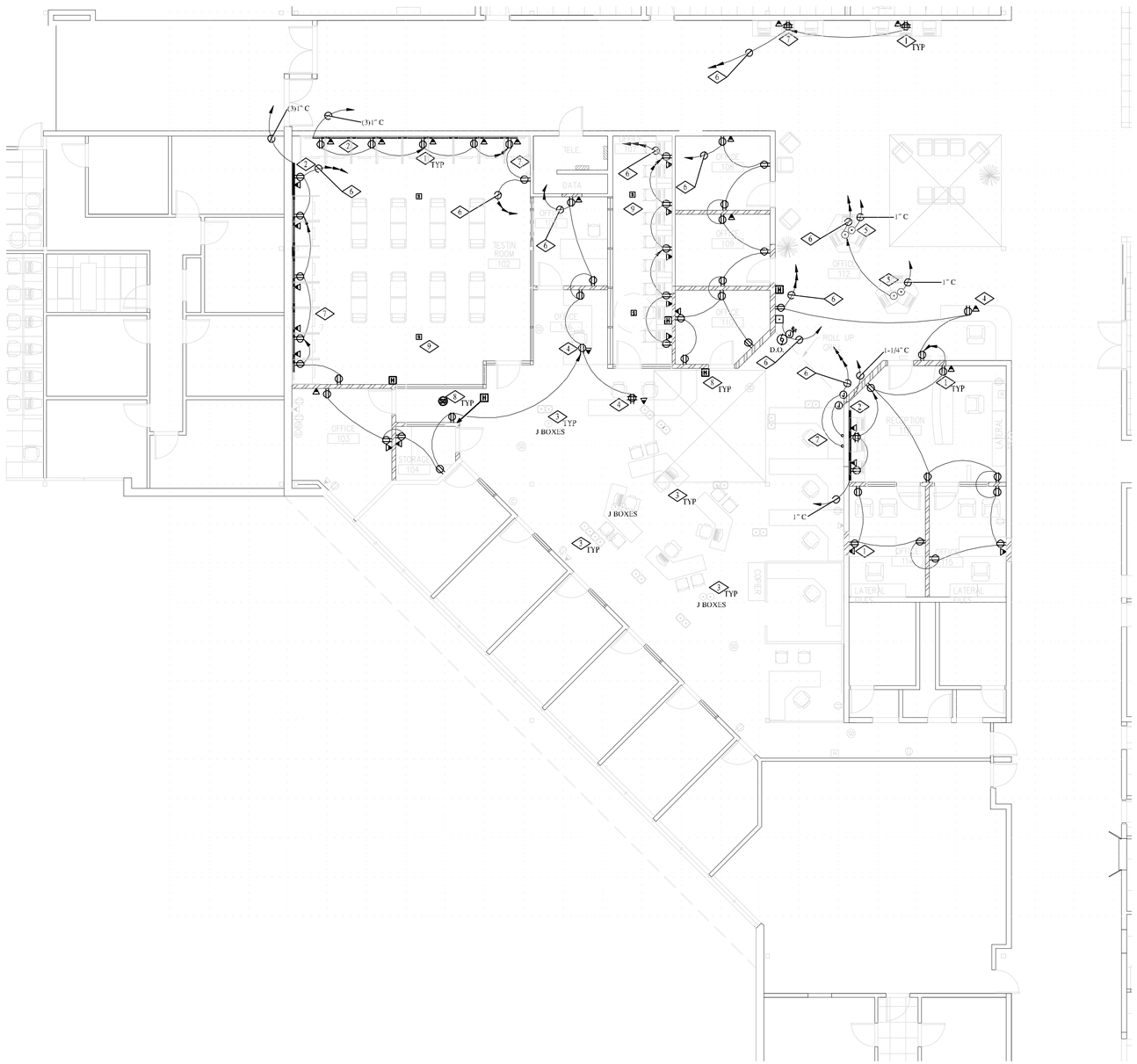

PARTIAL FIRST FLOOR PLAN- POWER

1/8"=1'-0"

REFERENCE NOTES: POWER

1. FURNISH AND INSTALL A 4"X4"X2-1/8" J-BOX IN THE APPROXIMATE LOCATION SHOWN FOR VOICE/DATA. RUN A 3/4" CONDUIT WITH A PULL-STRING FROM THE J-BOX TO THE NEAREST ACCESSIBLE CEILING SPACE ON THIS FLOOR. COORDINATE WITH THE OWNER/ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH-IN.

2. PROVIDE SURFACE MOUNTED WINMOLD WITH DUPLEX OUTLETS AND J-BOXES FOR VOICE DATA OUTLETS IN THE APPROXIMATE LOCATIONS SHOWN. TIE THE DUPLEX OUTLETS TO THE INDICATED CIRCUITS. RUN CONDUIT WITH PULL STRING (SIZE AND NUMBER OF CONDUIT AS SHOWN) FROM THE WINMOLD TO THE NEAREST ACCESSIBLE CEILING SPACE ON THIS FLOOR FOR VOICE/ DATA CABLING. COORDINATE WITH THE ARCHITECT/ OWNER FOR PATH OF CONDUIT. THE WINMOLD SHALL BE 4" WIDE PLASTIC WITH A DIVIDER IN BETWEEN POWER AND LOW VOLTAGE CABLING. WALKER AND HUBBLE ARE THE APPROVED MANUFACTURERS.WIRE MOLD IS TO BE EQUAL TO: WALKER 5400TB BASE- 5400C COVER- 5400 SERIES RACEWAY WITH ALL FITTINGS NECESSARY FOR A COMPLETE INSTALLATION.

3. REPLACE THE EXISTING PLASTIC COVER PLATE FOR THE FLOOR BOXES AND FLOOR J-BOXES IN THE AREA WITH NEW BRASS COVER. MAKE ANY MODIFICATIONS NECESSARY TO INSTALL THE NEW COVER PLATE. FIELD VERIFY FOR THE NUMBER OF FLOOR BOXES.

4. RUN CONDUITS THROUGH MILLWORK FOR ALL DEVICES INDICATED IN THE MILLWORK. COORDINATE THIS WORK WITH THE GENERAL CONTRACTOR. SEE ALSO, ARCHITECTURAL CABINET ELEVATIONS FOR MORE DETAILS.

5. PROVIDE 1" CONDUIT FROM THE CEILING TO COMPUTER KIOSK. ALSO TIE THE KIOSK TO THE INDICATED CIRCUIT. COORDINATE WITH THE ARCHITECT FOR EXACT LOCATION OF THE KIOSK.

6. TIE EACH HOMERUN TO A DEDICATED 120 VOLT, 20 AMP CIRCUIT ON THE SAME FLOOR. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION. PROVIDE ADDITIONAL BREAKERS AS REQUIRED. FIELD VERIFY FOR AVAILABLE PANEL SPACE.

7. DO NOT RUN SURFACE MOUNTED CONDUIT IF POSSIBLE. COORDINATE WITH THE ARCHITECT/ ENGINEER PRIOR TO RUNNING ANY SURFACE MOUNTED CONDUIT.

8. FURNISH AND INSTALL NEW FIRE ALARM DEVICE IN THE APPROXIMATE LOCATION SHOWN. TIE THE NEW DEVICE TO THE EXISTING FIRE ALARM CONTROL PANEL. THE NEW DEVICE SHALL BE THE SAME AS AND COMPATIBLE WITH THE EXISTING SYSTEM. TEST AND CERTIFY THE SYSTEM TO MEET THE LOCAL AHJ.

9. FURNISH AND INSTALL ALL NEW CEILING MOUNTED RECESSED SPEAKERS IN THE APPROXIMATE LOCATIONS SHOWN. THE NEW SPEAKER SHALL BE THE SAME AS THE EXISTING ONES. TIE THE SPEAKERS TO THE EXISTING SOUND SYSTEM. FIELD VERIFY. PROVIDE CONDUIT, CONDUCTORS, ETC., FOR A COMPLETE INSTALLATION.

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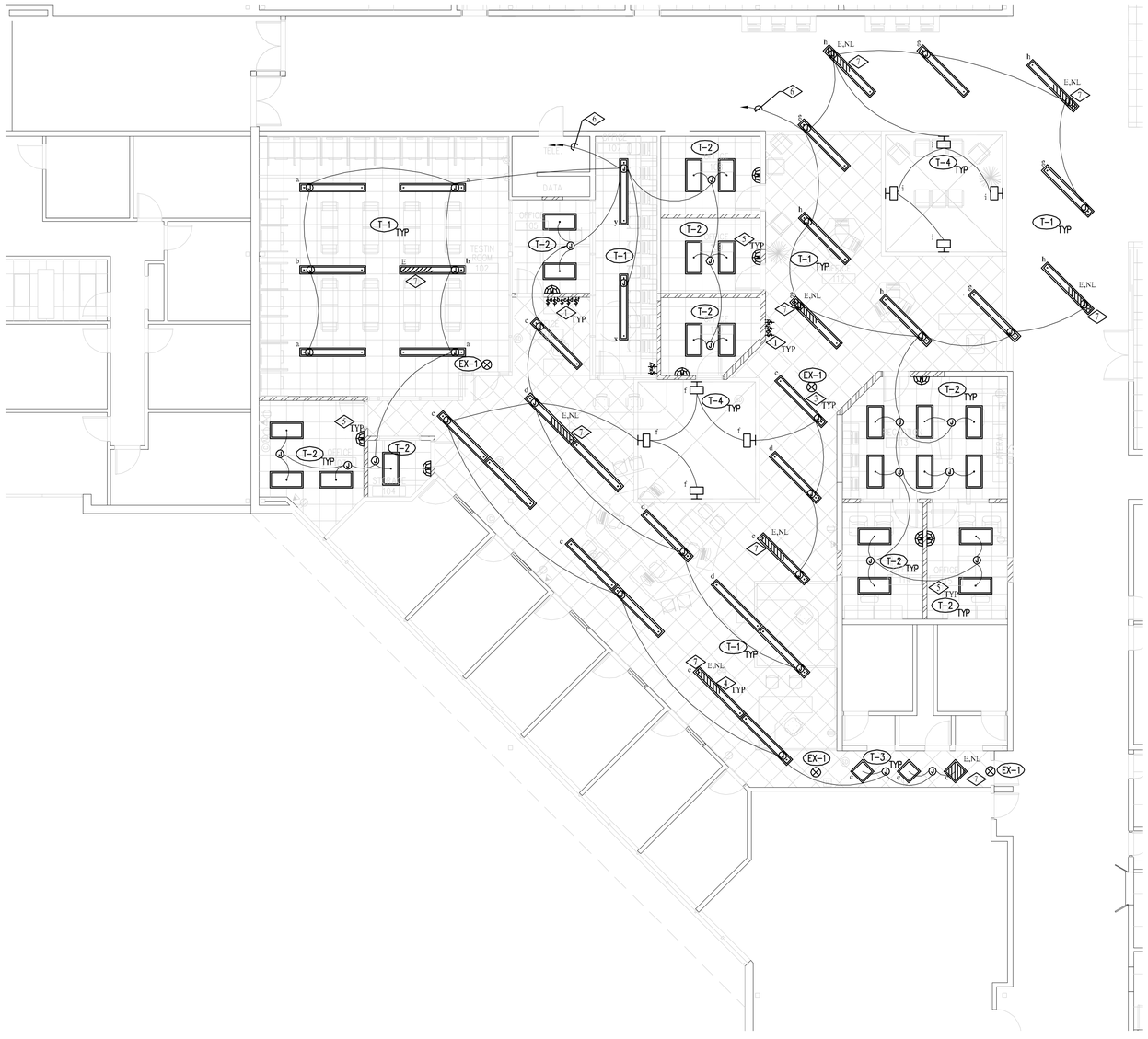

PARTIAL FIRST FLOOR PLAN- LIGHTING

1/8"=1'-0"

REFERENCE NOTES: LIGHTING

1. TIE ALL FIXTURES INDICATED WITH A LOWER CASE LETTER TO ITS CORRESPONDING SWITCH(ES). PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION.
2. EMERGENCY LIGHT FIXTURES INDICATED WITH THE LETTER "E" SHALL BE PROVIDED WITH A SEPARATE BALLAST FOR THE CENTER LAMP. ONE LAMP WITH 1100 LUMENS IN THE LIGHT FIXTURE SHALL BE TIED TO THE EMERGENCY SYSTEM AND TURN ON WHEN THE COMMERCIAL POWER FAILS REGARDLESS OF THE POSITION OF THE CONTROL WITCH. PROVIDE CONDUITS, CONDUCTORS, RELAY, ETC. FOR A COMPLETE INSTALLATION.
3. TIE EXIT SIGNS TO AN UNSWITCHED EMERGENCY LIGHTING CIRCUIT. PROVIDE CONDUITS, CONDUCTORS, RELAY BALLAST'S, ETC. FOR A COMPLETE INSTALLATION.
4. LIGHT FIXTURES INDICATED WITH THE LETTERS "NL" (NIGHT LIGHT) SHALL BE PROVIDED WITH A SEPARATE BALLAST FOR ONE OF THE LAMPS. THAT LAMP SHALL STAY ON AT ALL TIMES. PROVIDE CONDUITS, CONDUCTORS, ETC. FOR A COMPLETE INSTALLATION.
5. FURNISH AND INSTALL A CEILING/ WALL MOUNTED MOTION SENSOR TO CONTROL THE LIGHT FIXTURES IN THE ROOM. SET THE TIME DELAY FOR 30 MINUTES. WATT STOPPER & SENSOR SWITCH ARE THE APPROVED MANUFACTURES.
6. TIE EACH HOMERUN SHOWN TO THE NEAREST 277 VOLT, 20 AMP DEDICATED CIRCUIT. FIELD VERIFY. PROVIDE CONDUIT, CONDUCTORS, BREAKER, ETC FOR A COMPLETE INSTALLATION.
7. TIE THE EMERGENCY LIGHT FIXTURES TO THE NEAREST EMERGENCY LIGHTING CIRCUIT WITH AVAILABLE AMPACITY. RUN THE EMERGENCY LIGHTING CIRCUIT IN A SEPARATE RACEWAY. PROVIDE CONDUIT, CONDUCTORS, J-BOX, ETC FOR A COMPLETE INSTALLATION.

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